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REMEDIATION OBJECTIVES REPORT/ REMEDIAL ACTION PLAN/ REMEDIAL ACTION COMPLETION REPORT

for

THE ROGERS PARK SUB-SHOP POND PARCEL 6631 NORTH KEDZIE AVENUE CHICAGO, ILLINOIS

Prepared for

THE PEOPLES GAS LIGHT and COKE COMPANY

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PROJECT NO. 27194

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EXECUTIVE SUMMARY

This combination Remediation Objectives Report/Remedial Action Plan/Remedial Action Completion Report (ROR/RAP/RACR) presents and describes remediation objectives as well as remedial actions that were implemented on the Rogers Park Sub-Shop Pond Parcel (site) to accomplish the remedial objectives presented herein. This site is approximately 1.8-acres in size and is located at 6631 North Kedzie Avenue in Chicago, Illinois. The ROR/RAP/RACR has been prepared by Burns & McDonnell Engineering Company (Burns & McDonnell) on behalf of The Peoples Gas Light and Coke Company (Peoples Gas) in accordance with requirements set forth in Chapter 35 of the Illinois Administrative Code (IAC), Part 740 – Site Remediation Program (SRP).

Peoples Gas currently owns a 10.2-acre parcel of land located on North Kedzie Avenue in Chicago, Illinois referred to as the Rogers Park Sub-Shop Facility (formerly referred to as the North Shore Avenue Station). The North Shore Avenue Station has recently been subdivided into the following three (3) Parcels:

- The East Parcel, approximately 3 acres in size, is a vacant lot, covered by vegetation and an unused paved entrance to the property.
- The northern and interior portion of the facility, approximately 5.4 acres in size, is referred to as the Main Parcel.
- The southwest central portion of the property, referred to as the Pond Parcel, is approximately 1.8 acres in size, and currently consists of vacant land and a parking lot.

The Pond Parcel is the subject of this ROR/RAP/RACR.

The purpose of the ROR/RAP/RACR is to present corrective measures proposed and completed to eliminate exposure to benzene, toluene, ethylbenzene constituents, polynuclear aromatic hydrocarbons (PAH) constituents, lead and chromium found in surface and subsurface soils on the Pond Parcel. Corrective measures implemented include the removal of source material and impacted surface and subsurface soil. This ROR/RAP/RACR describes soil remediation activities that were implemented and conducted from mid-June 2001 to October 2001 on the Rogers Park Sub-Shop Pond Parcel.

Site Investigation (SI) activities were performed on the Rogers Park Sub-Shop Pond Parcel in December 1999 and January 2000 and again in May and June 2001, in accordance with Illinois EPA approved procedures. The SI Report was submitted to the Illinois Environmental Protection Agency (Illinois EPA) on September 14, 2001. In late 1999 and early 2000, six (6) borings were advanced in the area and one (1) surface soil sample was collected. During the 2001 investigation, nineteen (19) soil borings and six (6) probes were advanced at various locations

around the site, each to a depth of twenty (20) feet below ground surface (bgs). Soil samples were collected from various depths within each soil boring, delivered to an analytical laboratory and analyzed for either Target Compound List (TCL) volatile organic compounds (VOCs), BTEX, styrene, TCL semivolatile organic compounds (SVOCs), PAHs, priority pollutant metals or Resource Conservation and Recovery Act (RCRA) metals, and cyanide. Certain soil samples were also analyzed for Synthetic Precipitation Leaching Procedure (SPLP) lead and SPLP chromium. Physical soil testing was also conducted. Four groundwater monitoring wells were installed in the surrounding areas and one (1) well was installed inside the Pond Parcel as part of the 2001 field activities. Groundwater samples were collected from five (5) monitoring wells in June 2001. The groundwater samples were collected and analyzed for TCL VOCs, PAHs, RCRA metals, and total cyanide.

During SI field activities, odors and visual staining were noted at the following locations: RPM-SB30, RPM-SB61, RPM-SP062, RPM-SP064, B-18, RPM-SB29A, B-15, and B-16. Source material was identified at these locations within the Pond Parcel during the SI. Shallow groundwater was encountered in nineteen (19) borings on the Pond Parcel at depths ranging from five (5) to sixteen (16) feet bgs. Subsurface investigations support the presence of shallow perched groundwater.

Exposure pathways identified for evaluation include soil ingestion, soil inhalation, soil migration to Class II groundwater and ingestion of Class II groundwater. A Tier 1 evaluation, in accordance with TACO, as specified in 35 IAC Part 742, was conducted to evaluate residential population exposures via these pathways. In general, exceedences of Tier 1 values for soil ingestion were identified in near surface soils (typically within the top foot and in limited cases, as deep as 3 feet) for benzene, a limited list of SVOC constituents, and lead. Benzene was the only VOC constituent to exceed the Tier 1 soil level for the soil inhalation exposure route. This exceedence was in the two (2) limited source areas identified as part of this investigation. Exceedences of Tier 1 values for benzene, ethylbenzene, toluene, benzo(a)anthracene, dibenzo(a,h)anthracene, and chromium for the soil migration to groundwater pathway were identified in limited soil samples. No groundwater samples exceeded the Tier 1 levels for the ingestion of Class II groundwater exposure pathway.

The TACO Tier 1 values pertaining to a residential population were used as remediation objectives for the Pond Parcel, with the exception of naphthalene, where the more stringent construction worker inhalation was established. All soil exceeding TACO Tier 1 values was removed.

In general, remedial actions included site preparation, installation of a sheet pile wall to facilitate deeper excavation, waste characterization, excavation and off site disposal of impacted soil, excavation and decontamination of former structures associated with the former gas holder, confirmation soil samples, ambient air monitoring during construction, installation and

maintenance of soil erosion and sediment control, backfilling excavated areas with gravel and crushed concrete imported from off site, and demobilization. Approximately 25,020 tons of special waste was disposed of at the CID facility in Illinois and 1,137 tons was disposed of at the Roachdale facility in Indiana.

Confirmation soil sampling was conducted in order to demonstrate that remediation objectives were met. Certain areas required additional excavation once initial confirmation sample results were obtained. These areas were excavated further and additional confirmation samples were collected and analyzed. Excavation continued until remediation objectives were met.

In accordance with 35 IAC Part 742 and Section 742.1015, Subpart J, no special conditions apply to the Rogers Park Sub-Shop Pond Parcel site. The remedial action is a final action, and a Comprehensive No Further Remediation Letter is anticipated. No institutional controls or monitoring are required.

The data presented in this ROR/RAP/RACR is accurate and complete. No further remedial activity is necessary on the Rogers Park Pond Parcel.

1.0 INTRODUCTION

In conformance with the Illinois Environmental Protection Agency (Illinois EPA) Site Remediation Program (SRP), defined in Chapter 35 of the Illinois Administrative Code (IAC), Subtitle G, Waste Disposal, Chapter I: Pollution Control Board, Part 740, The Peoples Gas Light and Coke Company (Peoples Gas) contracted Burns & McDonnell Engineering Company (Burns & McDonnell) to complete this Remediation Objectives Report/Remedial Action Plan/Remedial Action Completion Report (ROR/RAP/RACR) of the Rogers Park Sub-Shop Pond Parcel (site) in Chicago, Illinois.

Peoples Gas currently owns a 10.2-acre parcel of land located on North Kedzie Avenue in Chicago, Illinois referred to as the Rogers Park Sub-Shop Facility (formerly referred to as the North Shore Avenue Station). The North Shore Avenue Station has recently been subdivided into the following three (3) Parcels:

- The East Parcel, approximately 3 acres in size, is a vacant lot, covered by vegetation and an unused paved entrance to the property.
- The northern and interior portion of the facility, approximately 5.4 acres in size, is referred to as the Main Parcel.
- The southwest central portion of the property, referred to as the Pond Parcel, is approximately 1.8 acres in size, and currently consists of vacant land and a parking lot.

This ROR/RAP/RACR presents recognized environmental conditions and related constituents of concern (COCs) and remediation objectives for the Pond Parcel, in accordance with the Tiered Approach to Corrective Action Objectives (TACO) Tier 1 residential levels, presented in 35 IAC Part 742. TACO is the Illinois EPA's method for developing remediation objectives for contaminated soil and groundwater in Illinois. TACO consists of the following approaches:

- Exclusion of exposure routes
- Use of area background concentrations as screening tools or remediation objectives
- Three tiers for selecting remediation objectives

Also presented herein is the remedial plan designed to meet the remedial objectives and results that confirm that the remedial action achieved the established objectives. This report follows a SI Report for the Pond Parcel that was submitted to the Illinois EPA on September 14, 2001, on behalf of Peoples Gas. The SI Report included:

• The Rogers Park Sub-Shop Pond Parcel Site Investigation Sampling Data (Burns & McDonnell 2001a)

• The Rogers Park Sub-Shop Pond Parcel Site Investigation Report (SI Report) (Burns & McDonnell 2001b)

1.1 PURPOSE AND ORGANIZATION OF REPORT

The purpose of the ROR/RAP/RACR is to document remediation objectives, present an evaluation of corrective measures proposed to eliminate exposure to constituents of concern, present the corrective measures implemented to achieve the remediation objectives and demonstrate the successful completion of the remediation.

This report is comprised of the following sections:

• Section 1.0 – Introduction

This section describes the purpose and organization of the report, summarizing general site information, including location, environmental conditions, site characterization, and future use of the site.

• Section 2.0 - Tier 1 Evaluation Summary

This section summarizes the Illinois EPA Tier 1 evaluation for applicable exposure routes and presents chemicals of interest to be addressed further. The soil ingestion, soil inhalation, soil migration to groundwater, and groundwater ingestion exposure routes that were presented in detail in the *Rogers Park Sub-Shop, Pond Parcel Site Investigation Report* (Burns & McDonnell 2001b) are summarized

• Section 3.0 – Exposure Route Evaluation

This section identifies potential exposure routes and determines whether each route may be excluded from further evaluation based on the presence of source material and other pathway-specific requirements.

Section 4.0 – Remediation Objectives

This section summarizes the final remediation objectives for the Pond Parcel, evaluates all data with respect to the remediation objectives, and sets forth required corrective actions.

• Section 5.0 - Remedial Action

This section summarizes the remedial action planned and implemented on the Pond Parcel.

• Section 6.0 – Results

This section demonstrates that removal actions achieved the site remediation objectives.

• Section 7.0 – Special Conditions

This section demonstrates that post remediation monitoring and/or institutional controls are not required.

Section 8.0 - Conclusions

This section discusses the successful completion of the remediation by compliance with remedial objectives.

• Section 9.0 - References

This section presents the references used in this report.

1.2 SITE BACKGROUND

1.2.1 Site Description

The Peoples Gas Light and Coke Company (Peoples Gas) currently owns a 10.2-acre parcel of land located at 6659 North Kedzie Avenue in Chicago, Illinois referred to as the Rogers Park Sub-Shop Facility (formerly referred to as the North Shore Avenue Station). A site location map is presented as Figure 1. The North Shore Avenue Station has recently been subdivided into the following three (3) Parcels for remediation purposes:

- The East Parcel, approximately 3 acres in size, is currently a vacant lot covered by vegetation, an unused paved entrance to the site and a gravel parking area.
- The Pond Parcel, approximately 1.8 acres in size, currently consists of vegetated land and a parking lot.
- The Main Parcel, approximately 5.4 acres in size, currently consists of the operational buildings and parking areas associated with the facility.

This ROR/RAP/RACR specifically addresses the Pond Parcel. The Pond Parcel is located approximately 1,000 feet northeast of the intersection of Albion Avenue and Kedzie Avenue in Cook County, Chicago, Illinois (Figure 1). The site is rectangular in shape, approximately 240 feet by 336 feet. The legal description for the Pond Parcel is as follows:

THAT PART OF LOT 2 (EXCEPT THE WEST 66 FEET THEREOF) IN THE SUBDIVISION OF THE WEST ½ (IN AREA) OF THE SOUTHWEST FRACTIONAL ¼ LYING NORTH OF THE INDIAN BOUNDARY LINE OF SECTION 36, TOWNSHIP 41 NORTH, RANGE 13, EAST OF THE THIRD PRINCIPAL MERIDIAN, IN COOK COUNTY, ILLINOIS, MORE PARTICULARLY DESCRIBED AS FOLLOWS:

COMMENCING AT THE SOUTHEAST CORNER OF SAID LOT 2; THENCE SOUTH 89°51'56" WEST ON THE SOUTH LINE OF SAID LOT 2, 408.81 FEET TO THE POINT OF BEGINNING; THENCE CONTINUING SOUTH 89°51'56" WEST ON THE SOUTH LINE OF SAID LOT 2, 330.00 FEET, MORE OR LESS, TO THE EASTERLY LINE OF KEDZIE AVENUE; THENCE NORTH 01°35'45" EAST OF THE EASTERLY LINE ON KEDZIE AVENUE, 240.00 FEET; THENCE NORTH 89°51'56" EAST, 330.00 FEET; THENCE SOUTH 01°35'45" WEST, 240.00 FEET TO THE POINT OF BEGINNING, ALL IN COOK COUNTY, ILLINOIS

CONTAINING 79.200 SQUARE FEET OR 1.81 ACRES, MORE OR LESS.

1.2.2 Additional Background Information

Hanson Engineers Incorporated (HEI) conducted an investigation for Peoples Gas on the Rogers Park Sub-Shop and prepared a report entitled *Preliminary Site Investigation – North Shore Avenue Station Gas Storage Facility – Chicago, Illinois* dated July 1992. The objective of the

HEI investigation was to determine if there was a potential for impacts associated with the former North Shore Avenue Station. The investigation encompassed 16.2 acres owned by Peoples Gas at that time. The investigation included a review of the environmental setting, historical documents provided by Peoples Gas, Sanborn maps, a water well survey and advancement of two soil borings within the Main and Pond Parcels. The report concluded that below ground portions of the gas storage structures may be present and, if they are present, may contain precipitated tars, unless the tar was removed during demolition of the gas holder (Hanson 1992).

According to the HEI Report, in 1926, the site (Main, East and Pond Parcels) began operating as a manufactured gas facility, the North Shore Avenue Station. A 15-million cubic foot aboveground gas holder, located and removed on the west side of the property, stored manufactured and natural gas until it was dismantled and removed in 1971. (The southern half of the holder was located in the Pond Parcel, with the remainder of the holder located in the Main Parcel). The gas holder was tar sealed until mid-1956 when the sealant was changed to oil. The gas holder was temporarily out of service between April and July 1956 when the holder was repaired and the sealant changed. The interior of the gas holder was steam cleaned and placed back in service July 18, 1956. At this time, a total of 40,000 gallons of tar was removed from two 12,000 gallon buried tar tanks, the northwest holder invert and the tar dam and pump weirs. Also during the 1956 outage, additional tar totaling 152,600 gallons was removed from the base of the gas holder and unspecified locations around the gas holder. The gas holder was disconnected and purged in 1969. Most tar tanks along the holder and the gas holder itself were removed in 1971. Specifications called for the removal of the gas holder and concrete pad, the settling tank, both oil tanks and 7 of 13 tar collection tanks from the property. It is unclear, from the historical records, what happened with the other 6 tar collection tanks. The approximate locations of the former MGP structures are shown in Figure 2.

In 1999 and 2000, Roy F. Weston (Weston) conducted investigation activities in the Pond, Main and East Parcels. Field activities were performed by Weston from December 6, 1999 through January 14, 2000 and July 12 through 14, 2000. Weston advanced six (6) soil borings and collected one (1) surficial soil sample from within the Pond Parcel. The samples collected by Weston were analyzed for Target Compound List (TCL) volatile organic compounds (VOCs), TCL semi-volatile organic compounds (SVOCs), priority pollutant metals, and Synthetic Precipitation Leaching Procedure (SPLP) lead and chromium. Weston noted that visual evidence of impacts were observed at soil borings B-15, B-16 and B-18 at depths less than 9.0 feet below ground surface (bgs). Weston installed four (4) groundwater monitoring wells outside of the Pond Parcel during the investigation. The groundwater samples were analyzed for TCL VOCs, TCL SVOCs and metals.

Burns & McDonnell performed additional site investigation activities on the Pond Parcel on May 1 through 4, 2001 and June 14, 15, and 22, 2001. During the Burns & McDonnell investigation,

nineteen (19) soil borings and six (6) probes were advanced at various locations within the Pond Parcel and within the right-of-way for Kedzie Avenue, directly west of the Pond Parcel, each to a depth of twenty (20) feet bgs. Soil samples were collected from various depths within each soil boring, delivered to an analytical laboratory and analyzed for TCL VOCs, benzene, toluene, ethylbenzene and xylenes (BETX), TCL SVOCs, polynuclear aromatic hydrocarbons (PAHs), Resource Conservation and Recovery Act (RCRA) metals, and cyanide. Certain soil samples were also analyzed for SPLP lead and SPLP chromium. Physical soil testing was also conducted. During SI field activities, odors and visual staining were noted at the following locations: RPM-SB30, RPM-SB61, SP062, SP064, and RPM-SB29A. One (1) groundwater monitoring well was installed inside the Pond Parcel as part of the Burns & McDonnell field investigation.

Groundwater samples were collected from all five (5) groundwater monitoring wells located on and around the Pond Parcel on June 22, 2001. The groundwater samples were collected and analyzed for TCL VOCs, PAHs, RCRA metals, and cyanide.

The soil boring and soil probe locations associated with the SI activities conducted by Weston and Burns & McDonnell are shown on Figure 2. The five (5) groundwater monitoring well locations are shown on Figure 3. The results of the Weston and Burns & McDonnell SI activities were incorporated into *The Rogers Park Sub-Shop Pond Parcel Site Investigation Report*, dated September 2001 (Burns & McDonnell 2001b). This SI Report was submitted to the Illinois EPA on September 14, 2001.

1.3 RECOGNIZED ENVIRONMENTAL CONDITIONS

Based on visual observations during SI field activities, source material was identified at soil boring locations RPM-SB29A, RPM-SB30, RPM-SB61, B-15, B-16, and B-18 and soil probe locations RPM-SP062 and RPM-SP064. Figure 2 shows the boring and probe locations and presents the significant findings on the Pond Parcel. The source material appeared to be confined to limited areas. One area is located in the vicinity of borings RPM-SB61 and RPM-SB30 and probes SP062 and SP064, in the center of the former gas holder. Source material was observed from 8 to 11 feet bgs. Another area, is located in the vicinity of RPM-SB29A, B-15, and B-16, in the area of the former tar tanks. Based on the results of the SI, this area of impacted material did not extend outside of the Pond Parcel, into the Kedzie Avenue right-of-way, but it did extend to the Main Parcel, north of the Pond Parcel. Further detail is presented in Sections 2 and 3 of this Pond Parcel ROR/RAP/RACR.

2.0 TIER 1 EVALUATION SUMMARY

This section summarizes the TACO Tier 1 evaluations as presented in the Pond Parcel SI Report (Burns & McDonnell, 2001b).

2.1 CURRENT AND FUTURE LAND USE

The Pond Parcel, currently vacant land and an enclosed parking area, is zoned M1-1 (restricted manufacturing). A map of zoning for the site and surrounding areas is presented in Figure 3. Surrounding properties consist of residences to the east and south, undeveloped land and the North Shore Channel to the west, and industrial and commercial businesses to the north. The Chicago City limits are located directly west of the Pond Parcel, beyond Kedzie Avenue. Note that a Dominick's grocery store to the north of the Peoples Gas Main Parcel was recently vacated. Buildings to the north of the Main Parcel (formerly owned by CP Clare), have recently been demolished.

The future use of the Pond Parcel is residential development. The area surrounding the site is currently used for residential, commercial, and business purposes. Future plans for the surrounding area are unknown, however they are not expected to change.

2.2 TIER 1 EVALUATION

As presented in the Pond Parcel SI Report (Burns & McDonnell 2001b), soil data was compared to Illinois EPA TACO Tier 1 residential objectives for soil ingestion, soil inhalation and soil migration to Class II groundwater exposure routes. Table 1 presents a summary of constituents detected in at least one sample collected, and a comparison to the Tier 1 objectives for the soil ingestion, soil inhalation and soil migration to Class II groundwater exposure routes. Measured concentrations that exceed the lowest Tier 1 objective are shaded. Constituents that were analyzed for, but not detected in any samples are not presented in the Table 1. As discussed in the Pond Parcel SI, no constituents exceeded the Tier 1 objectives for the ingestion of Class II groundwater exposure route. The following subsections summarize the Pond Parcel SI Report findings.

2.2.1 Soil Ingestion Exposure Route

Soil samples on the site were compared to TACO Tier 1 residential objectives for soil ingestion. Some of the surface soil samples contained VOCs, PAHs, total lead and arsenic at concentrations greater than their respective TACO Tier 1 residential objectives. Benzene was the only VOC that exceeded its Tier 1 screening level in six (6) samples. Benzo(a)anthracene, benzo(b)fluoranthene, benzo(k)fluoranthene, benzo(a)pyrene, chrysene, dibenzo(a,h)anthracene, and indeno(1,2,3-cd)pyrene were the SVOCs that exceeded Tier 1 levels in a limited number of samples. These constituents are PAHs. Inorganic constituents that exceeded Tier 1 levels were lead and arsenic. Lead exceeded the Tier 1 level in six (6)samples. As presented in the Pond Parcel SI Report (Burns & McDonnell 2001b), the statistical 95 percent upper confidence limit

(UCL) for arsenic in site soil was calculated to be 9.007 mg/kg, which is below the TACO metropolitan statistical area concentration (13 mg/kg) for arsenic (the remediation objective). Therefore, arsenic on the site was eliminated from further evaluation.

2.2.2 Soil Inhalation Exposure Route

The Tier 1 inhalation exposure route was evaluated using all soil samples that were collected during the SI. Of sixty-one (61) samples evaluated, benzene exceeded the Tier 1 level for inhalation in eight (8) samples at depths less than 8 feet bgs.

2.2.3 Soil Migration to Groundwater Exposure Route

The Tier 1 soil migration to groundwater exposure route was evaluated using all soil samples collected from above the water table. Based on a review of the data and the soil boring logs, the presence of a continuous shallow aquifer has not been established on the Pond Parcel. Weston reported difficulty in collecting groundwater samples from the two monitoring wells (MW03 and MW04) due to slow recharge. Also, Weston had difficulty obtaining static water level readings, due to the slow rate of recharge. However, even if the groundwater was continuous and not the result of perched conditions, the unconfined water beneath the site would not meet the definition of a Class I aquifer, as defined in 35 IAC, Subtitle F, Chapter I, Part 620 – Groundwater Quality, Section 210. Grain size testing performed on the silty clay and a soil permeability test support this conclusion. At best, the water would be considered a Class II source of groundwater, as defined in the regulations. Therefore, as a conservative approach, soil analytical results from all samples collected from above the water table were compared to Tier 1 levels pertaining to Class II groundwater.

Toxicity criteria in Appendix B, Table A of TACO for metals and cyanide are only applicable to TCLP or SPLP data, and analyses were for total concentrations for many of the constituents/samples. Therefore, pH dependent Tier 1 values were used for metals (Appendix B, Table D of TACO), unless SPLP data was obtained. Measured values for pH ranged from 7.6 to 8.1. The Illinois EPA Table D in Appendix B of TACO, where values are presented for pHs up to 9.0 was used, unless SPLP data was available. No pH dependent Tier 1 value was available for chromium in Class II groundwater, so the Class I groundwater value was selected for chromium.

No pH dependent Tier 1 value is available for lead. The background concentrations for lead, presented for counties within metropolitan statistical areas (MSA) in Appendix A, Table G of TACO, is 36 mg/kg. The site is currently zoned for restricted manufacturing use. Because the future use of the site is for residential development, the published MSA background concentration will not be used as the Tier 1 value for this pathway. However, several of the soil samples were analyzed for SPLP lead. Therefore, lead was evaluated against the corresponding toxicity criteria in Table A, Appendix B of TACO, and not the published background value in Appendix A, Table G of TACO.

Of the sixty-one (61) samples evaluated, benzene, ethylbenzene, and toluene were the only VOCs that exceeded Tier 1 levels in a limited number of samples less than 14 feet bgs.

Benzo(a)anthracene and dibenzo(a,h)anthracene were the SVOCs that exceeded Tier 1 levels.

Chromium was the only metal that exceeded Tier 1 level in four (4) shallow soil samples collected.

2.2.4 Groundwater Ingestion Exposure Route

Constituent concentrations in groundwater were evaluated for the groundwater ingestion exposure route using TACO Class II levels. Of the five (5) groundwater samples collected and analyzed in June 2001, no samples exceeded the Class II levels for the Class II groundwater ingestion exposure route.

3.0 EXPOSURE ROUTE EVALUATION

Remediation objectives do not need to be determined for a specific exposure route if it can be demonstrated that the exposure route does not exist based on criteria established in Subpart C of TACO (Illinois EPA 2001). The extent of contamination of COCs must be characterized and source material must not exist in order to exclude an exposure route. In addition, pathway-specific requirements must be met for each exposure route.

3.1 SOURCE MATERIAL EVALUATION

During SI field activities, odors and visual staining were noted in borings RPM-SB29A, RPM-SB30, RPM-SB61, B-15, B-16, and B-18 within the Pond Parcel property boundary. Impacted material was observed at 2.0 to 12.0 foot depth interval at boring RPM-SB29A. At boring RPM-SB30, impacted material was observed at 2.0 to 9.0 feet bgs. Tar was observed at borings B-15, B-16, and B-18 at depths less than 9.0 feet bgs. At boring RPM-SB61, visual staining and strong odors were observed from 3 to 11 feet bgs with PID readings ranging from 0.3 parts per million (ppm) to 367 ppm. During SI field activities, six (6) probes were advanced for visual observations only (RPM-SP062, RPM-SP063, RPM-SP064, RPM-SP065, RPM-SP066, RPM-SP069). Probes RPM-SP062 and RPM-SP064 were described as containing odors and staining at seven (7) to eleven (11) feet bgs. Probes RPM-SP063, RPM-SP065, RPM-SP066, and SP069 were described as containing a slight odor to no odor. This information was used to create the significant findings map (Figure 2).

Figure 2 shows two areas impacted by source material on the Pond Parcel. One area, is located in the vicinity of borings RPM-SB61, RPM-SB30, and B-18 and probes SP062 and SP064 and contains source material from 8.0 to 11.0 feet bgs, based on visual observation. Another area, is located in the vicinity of RPM-SB29A, B-15, and B-16 and contains source material from 7.0 to 8.0 feet bgs. The area of source material was suspected of extending outside of the Pond Parcel, into the Main Parcel, but the investigation indicated that it did not extend to the west, into the right-of-way to Kedzie Avenue. Because the existence of source material was confirmed, further evaluation was necessary.

The removal of source material is discussed in detail in Section 5.4 of this report.

3.2 SOIL INGESTION EXPOSURE ROUTE

As discussed in Section 2.2.1, soil data was compared to Illinois EPA TACO Tier 1 residential objectives for soil ingestion exposure route. Tier 1 levels were exceeded for benzene, benzo(a)anthracene, benzo(b)fluoranthene, benzo(k)fluoranthene, benzo(a)pyrene, chrysene, dibenzo(a,h)anthracene, indeno(1,2,3-cd)pyrene, and lead. Therefore, the soil ingestion exposure route will not be eliminated from further evaluation.

3.3 SOIL INHALATION EXPOSURE ROUTE

Tier 1 inhalation levels pertaining to the residential population were exceeded for benzene. Therefore, the soil inhalation exposure route will not be eliminated from further evaluation.

3.4 SOIL MIGRATION TO GROUNDWATER EXPOSURE ROUTE

As discussed in Section 2.2.3, Tier 1 screening levels were evaluated for soil migration to groundwater using Class II screening levels. Tier 1 levels were exceeded for benzene, ethylbenzene, toluene, benzo(a)anthracene, dibenzo(a,h)anthracene, and chromium. Therefore, the soil migration to groundwater exposure route will not be eliminated from further evaluation.

3.5 GROUNDWATER INGESTION EXPOSURE ROUTE

Of the five (5) groundwater samples collected for this SI, no samples exceeded the Tier 1 objectives for ingestion of Class II groundwater. No further evaluation is necessary.

4.0 REMEDIATION OBJECTIVES

This section identifies remediation objectives for the Rogers Park Sub-Shop Pond Parcel site. Site remediation objectives were developed using TACO Tier 1 evaluations summarized in Sections 2.0 and 3.0, and as presented in Table 1. Remediation objectives only need to be established for those constituents that exceeded the residential Tier 1 levels. Also, the most stringent TACO Tier 1 remediation objective for naphthalene applies to inhalation by the construction worker population, so that value will replace the residential objective. Also, as required by regulation, source material must be removed. A summary of the remediation objectives is presented in Table 2.

4.1 REMEDIATION OBJECTIVES

The following remediation objectives, pertaining to soil on the Rogers Park Sub-Shop Pond Parcel site have been established.

Remove source material, and remove soil at varying depths that exceed TACO Tier 1 residential remediation objectives. Specifically, soil must not exceed the following criteria:

•	Benzene	0.17 mg/kg
•	Ethylbenzene	19 mg/kg
•	Toluene	29 mg/kg
•	Benzo(a)anthracene	0.9 mg/kg
•	Benzo(b)fluoranthene	0.9 mg/kg
•	Benzo(k)fluoranthene	9 mg/kg
•	Benzo(a)pyrene	0.09 mg/kg
•	Chrysene	88 mg/kg
•	Dibenzo(a,h)anthracene	0.09 mg/kg
•	Indeno(1,2,3-cd)pyrene	0.9 mg/kg
•	Naphthalene	1.8 mg/kg
•	Total lead	400 mg/kg
•	SPLP lead	0.1 mg/L
•	Total chromium	28 mg/kg
•	SPLP chromium	1.0 mg/L

These remediation objectives are intended to prevent exposure to source material and to benzene, ethylbenzene, toluene, several PAHs, lead, and chromium present in concentrations above remediation objectives pertaining to a residential population, and to obtain a Comprehensive No Further Remediation Letter, as identified in Subpart F of 35 IAC Part 740, based on a residential property classification. Note that while SPLP lead and SPLP chromium results were well below

the Tier 1 level pertaining to soil migration to groundwater, not all samples were analyzed for SPLP lead and chromium during the investigation. Therefore, remediation objectives will include SPLP lead and SPLP chromium.

5.0 REMEDIAL ACTION

This section identifies remedial actions proposed and implemented on the Pond Parcel to achieve the remediation objectives established in Section 4.0 of this ROR/RAP/RACR. The remedy for the site is to excavate and dispose of impacted soil.

Remedial action activities consist of the following main components:

- Site preparation;
- Waste characterization;
- Air monitoring during remediation;
- Excavation, stockpiling and off site disposal of impacted surface soils, managed as special waste, and management of decontamination water;
- Confirmation soil samples;
- Management of potential stormwater runon/runoff, and soil erosion and sediment control; and
- Demobilization and site restoration.

Remedial activities on the Pond Parcel took place between June and October 2001. Photographs documenting field activities are presented in Appendix A.

5.1 SITE PREPARATION

Site preparation activities began in May 2001, as part of ongoing remediation activities in adjacent Parcels. Fabric was attached to the existing fence along the north, west and south sides of the Pond and South Parcels in order to help control potential off site dust migration during excavation. The fabric was placed in a manner that allowed it to act as a silt fence as well. Fabric, 8 feet in length, was attached at the top and middle of the fence and extended to the ground surface.

Buried utility lines were identified by exposing them during hand excavation activities and they were left undisturbed. Previously unidentified buried utilities/structures in surface soil were encountered during remediation work, identified as abandoned lines, and removed as necessary. Utilities were deemed abandoned because they were no longer in service.

The gas holder and tar tank excavation areas, based on the depth of excavation, were laid out prior to excavation activities. Additionally, the confirmation sampling grids were identified and marked prior to excavation.

A sheet pile wall earth retention system was installed in July 2001 along a portion of the western boundary of the Pond Parcel. The sheet pile wall was 80 feet long by 25 feet deep and its location is shown on Figures 4, 5, and 6. Excavation depths up to 12 feet were planned in the area along Kedzie Avenue, and Chicago Department of Transportation (CDOT) requested that the sidewalk and the right-of-

way not be disturbed during excavation activities. Since side sloping was not allowed, the sheet pile wall was installed before excavation.

The CDOT sheet pile wall approval required damage control monitoring. The damage control monitoring consisted of twenty (20) settlement points and installation of an inclinometer, which measured the movement of the ground outside of the sheet pile wall. The twenty (20) settlement points were initially measured on July 20, 2001, prior to installation of the sheet pile wall. The settlement points were measured weekly until September 24, 2001. The inclinometer was installed on July 26, before any excavation occurred, and weekly measurements were collected from July 27 through September 21, 2001. The data collected from the weekly monitoring is retained on file at CDOT and Burns & McDonnell. Due to the collected data and completion of backfill on the site, CDOT requires future measurements to be collected at the end of October and November 2001.

The sewer line along Kedzie Avenue from the outfall on North Shore Avenue to Manhole 1122 was inspected in July 2001 in order to evaluate the condition of the line prior to installation of the sheet pile wall. The sewer inspection was requested by CDOT as part of the damage control monitoring requirements for installation of the sheet pile wall earth retention system. The sewer line was inspected again in October 2001, to evaluate the condition of the line after sheet pile wall installation, excavation, and backfill activities. No damage was noted.

5.2 WASTE CHARACTERIZATION

Prior to excavation activities, waste characterization samples were collected for analyses. Composite soil sample RPS-WC1 was required by Waste Management to dispose of the material in the CID landfill, in Chicago, Illinois. The sample was collected on April 23, 2001 by Burns & McDonnell and submitted to Test America Inc. in Bartlett, Illinois under proper chain-of-custody. Sample RPS-WC1 was analyzed for pH, TCLP metals, TCLP pyridine, TCLP hexachlorobenzene, polychlorinated biphenols (PCBs), flashpoint, reactive sulfide, paint filter, and LN Parameters (chemical oxygen demand, fats, oil and grease, ammonia nitrogen, pH, total cyanide, and oxidizing agents).

On May 2, 2001, Burns & McDonnell collected a grab soil sample (RPM-SB61-005) from the Rogers Park Pond Parcel and submitted it to STAT Analysis Corporation (STAT) in Chicago, Illinois under proper chain-of-custody. Analyses for sample RPM-SB61-005 were required by Heritage Environmental Services, LLC (Heritage); to dispose of the source material in the Roachdale Subtitle C Landfill, in Roachdale, Indiana. Sample RPM-SB61-005 was collected in an area containing source material. The sample was analyzed for TCLP VOCs, TCLP SVOCs, TCLP Metals, flashpoint, pH, paint filter, reactive sulfide, total solids, ash content, total cyanide, total phenol, extractable organic halides (EOX) and water reactivity. Analytical results of the waste characterization samples (RPS-WC1 and RPM-SB61-005) are presented in Appendix B

5.3 AIR MONITORING

Air monitoring for BTEX and PAHs (as dust) was performed in an effort to ensure that residents of the surrounding community and onsite workers were not exposed to airborne compounds that may be emitted during remedial activities. Air monitoring was conducted in accordance with the procedures described below and documentation sheets are included in Appendix C.

5.3.1 Real-Time Air Monitoring

Air monitoring was performed around the site perimeter during management of impacted media. PAH constituents, as dust, were monitored using a MiniRAM, a hand held dust collection device. A MiniRAE 2000 Photo Ionization Detector (PID) was used to determine real-time organic vapor concentrations. Organic vapor and dust monitoring were done regularly (approximately every hour) during the workday along the fence line. Readings were taken mainly in the north, south, east, and west portions of the site in a rotating fashion. Appendix F contains the corresponding equipment calibration sheets, presents real-time air monitoring results during remedial activities, and corrective action sheets.

The action level for organic vapor of 0.2 parts per million (ppm) was rarely exceeded. On July 26, 2001, PID readings exceeded the action limit of 0.2 ppm inside the gas holder excavation at approximately 12 feet bgs. Excavation was slowed and respirators were required when working in the gas holder excavation area. On August 2 and 3, 2001, PID readings exceeded 0.2 ppm around the stockpile near the gas holder excavation. Excavation was slowed, respirators were required in the gas holder excavation area, and the waste was covered with plastic sheeting. On August 6, 7, and 8, 2001, PID readings exceeded 0.2 ppm around the waste near the gas holder excavation, and a Draeger benzene tube was used to measure ambient air benzene levels. All ambient benzene level results from the Draeger tubes were 0 ppm.

The action level for dust on the site was $150 \,\mu\text{g/m}^3$ for the 24 hour average concentration of particulate matter less than 10 micrometers, as specified in 40 CFR 50.6. Dust levels exceeded the action level on August 6, 2001. A water truck was used to spray the area north of the Pond Parcel in order to minimize the dust.

Monitoring of onsite worker health and safety is addressed in a separate Site Health and Safety Plan. The Site Health and Safety Plan (HASP) was written specifically to address the chemical and physical hazards specific to the site (Burns & McDonnell 2001c). All persons working on the site were required to read, sign and conform to the requirements of the health and safety plan.

5.3.2 Ambient Air Monitoring

Ambient air monitoring was performed using Summa® canisters, which were analyzed for BTEX using USEPA Method TO-14A. The canisters were placed at north, south, east and west stations to provide representative results of the site (Figure 5). The canisters were located at a height of 8 to 9 feet above the ground surface. The canisters were not located in the direct vicinity of any permanent solid obstructions. Pre-excavation sampling was conducted from July 20 through July 24, 2001. Excavation air sampling

was conducted from July 25 through September 26, 2001. The analytical results and the meteorological data associated with the pre-excavation, and excavation air samples are shown on Tables 3, 4 and 5.

The Summa® canisters were analyzed for BTEX in a three-day cycle as shown below:

Work Day	Locations Sampled
1	4 (All sampling stations)
2	1 (Collected from the downwind station)
3	1 (Collected from the downwind station)
4n	Repeat as indicated for Work Days 1 through 3

All of the canisters were analyzed every third monitoring day. Only the prevailing downwind air samples were analyzed on the other two days of each cycle. The Summa® canisters were placed into operation at approximately 6:30 AM, before work commenced, and operated until all site work ceased for the day. None of the action levels for benzene, toluene or ethylbenzene (39, 2,211 or 4,883 parts per billion by volume (ppbv), respectively) were exceeded. Appendix D contains the action level calculations. An allowable concentration on the receptor was calculated and then allowable vapor concentrations were calculated.

A portable meteorological station was set up onsite to monitor barometric pressure, wind speed and wind direction. The meteorological data was logged using an electronic data logger. Table 3 contains the meteorological data collected during excavation activities. The prevailing wind direction was determined by the meteorological station and used to designate the predominant downwind air monitoring location(s) for each air-sampling event.

As discussed above, PAH (as dust) monitoring was performed on a continuous basis at each stationary monitoring location using a hand held dust collection device (MiniRAM).

5.4 EXCAVATION

Excavation of the impacted soils was conducted at specified depths across the site. Based on the SI findings, excavation on the Pond Parcel was planned from depths of six (6) inches to more than ten (10) feet. Two areas, the former tar tank and the former gas holder, were planned to be excavated to depths greater than 10 feet bgs. Figure 4 details the excavation layout plan.

During excavation activities on the Pond Parcel, historical structures were uncovered. Some areas required deeper excavation than anticipated in order to achieve the remedial objectives based on the confirmation samples that were collected during excavation (see Figure 5) and in order to remove historical structures. All excavation activities on the Pond Parcel fall into one of the following categories: gas holder excavation, tar tank excavation, tank invert and valve/wier box excavation, miscellaneous steel tar pipe excavation, and surface soil excavation. As presented above, air monitoring was conducted during all excavation activities.

5.4.1 Gas Holder Excavation

Based on the findings in the SI, excavation of the gas holder began in July 2001. Coal tar saturated material was observed in the gas holder excavation at depths greater than three (3) feet bgs. Excavation was performed to a depth of approximately 12 feet bgs, until visually clean native clay was observed at the bottom of the excavation. The top three (3) feet of soil excavated from the gas holder area was considered special waste and was often collected and temporarily stockpiled before being loaded into end-dump trailers and transported to the Waste Management CID landfill in Chicago, Illinois. Trucking occurred between 6 am and 3 pm. Some pre-loading occurred in the afternoon for transport the following day. Some of the heavily impacted material excavated at depths greater than six (6) feet bgs was considered to be a different waste stream than the material being transported to CID. This waste was segregated and loaded into lined end-dump trailers and transported to the Heritage Roachdale Sub-Title C landfill in Roachdale, Indiana. It was disposed of as non-hazardous special waste, although it was manifested as hazardous waste in Illinois. Each manifest clearly stated the following in Box J:

This consignment is not hazardous waste in the State of Indiana per the Indiana Department of Environmental Management correspondence dated January 21, 2001 to Regina Mahoney from Leah Fouty and the American Battery Recyclers, Inc. et al vs. USEPA (April 21, 2000)

5.4.2 Tar Tank Excavation

Based on the findings in the SI, excavation of the tar tank area began in July 2001. Prior to excavation, a sheet pile earth retention system was installed to prevent damage to Kedzie Avenue located directly west of the tar tank excavation area. Coal tar saturated material was observed in the tar tank excavation area at depths greater than three (3) feet bgs. Excavation was performed to a depth of approximately 12 feet bgs, until visually clean native clay was observed at the bottom of the excavation. The top three (3) feet of soil excavated from the tar tank area was managed as special waste and the more heavily impacted soil, generally excavated from the deeper area, was manifested as hazardous waste but disposed of in the Heritage Roachdale Subtitle C facility in Indiana as special waste as discussed in Section 5.4.1.

5.4.3 Surface Soil Excavation

Based on findings in the SI, the surface soil excavation in the southern portion of the Pond Parcel began in June 2001. The surface soil excavation was designed to remove soil of six (6) inches to three (3) feet bgs from designated areas as shown in Figures 4 and 5. Based on confirmation composite samples discussed in Sections 5.6 and 6.1.1, some areas required additional excavation. Therefore, the southern portion of the Pond Parcel was excavated from six (6) inches to more than ten (10) feet bgs. The soil was managed as special waste and was disposed of at the CID facility.

5.4.4 Valve/Wier Box Excavation

During the surface soil excavation, the concrete holder foundation was discovered. Three (3) holder invert valve/wier boxes were uncovered along the concrete holder foundation. Only one (1) valve/wier box was located on the Pond Parcel. The structures were at least 20 feet wide by 30 feet long by 12 feet deep and housed abandoned steel and cast iron piping and valves that were 4 to 5 feet in diameter. The

boxes were located in the northwest, northeast, and southeast portion of the foundation. Excavation of the holder invert valve/wier boxes began in September 2001. Oily water and sludge were present in the valve/wier boxes. The liquid was collected, managed, transported and disposed of as hazardous waste at either Waste Management CID Bioplant in Calumet City, Illinois or Beaver Oil Company, Inc. in Hodgkins, Illinois. After removal of liquids, the valve/wier boxes were fully excavated to a depth of 12 feet bgs. A 24-inch cast iron outlet pipe was removed at a depth of 5 feet bgs around the southeast valve/wier box. The piping in the valve/wier boxes was collected, decontaminated, and transported to United Scrap in Cicero, Illinois. The sludge and soil within and surrounding the boxes was collected into roll-off boxes, manifested as hazardous waste, and disposed of in the Subtitle C facility in Indiana as special waste.

Excavation around the concrete gas holder foundation began in September 2001, because the soil was visually impacted. The section between the northwest and southeast valve/wier boxes was excavated to 4 feet bgs and the concrete was then broken up. The section between the southeast and northeast valve/wier boxes was excavated to 5 feet bgs and the concrete holder foundation was left in tact. All visually impacted material around the foundation was excavated and properly disposed of as special waste.

5.4.5 Miscellaneous Steel Tar Pipe Excavation

During excavation of the tar tank area, a 2-inch steel tar pipe was discovered (as shown on Figure 6). The pipe extended approximately 150 feet south from the tar tank excavation then turned at a right angle and extended approximately 300 feet west. Excavation of the pipe began in September 2001. The pipe was excavated to 3 feet bgs and removed. The soil surrounding the pipe was disposed of as special waste.

Figure 6 shows the final excavation map. Construction activities were documented. Daily reports of excavation activities, activity logs and other pertinent data were generated and maintained. Appendix E contains a copy of the daily reports.

5.5 SOIL AND WATER REMOVAL

A total of 25,020 tons of special waste was disposed of in the CID facility, approximately 1,137 tons of waste was disposed of in the Subtitle C facility in Indiana as special waste, and 97,037 gallons of wastewater was removed from the site, manifested and transported and disposed of at either CID or Beaver Oil. The waste totals are a combination of the Pond and Main Parcels, because the source material straddled the boundaries between the Parcels and all excavation work was done concurrently. Appendix F contains the manifest logs for special waste, hazardous waste, and hazardous liquid. Remedial action manifests and weight tickets are included in a separately bound book, entitled *Remedial Action Manifests*, *Weight Tickets*, and Summary of Disposal Quantities (Burns & McDonnell 2001d).

5.5.1 Soil Manifested as Special Waste

The majority of the soil collected from both the Pond and Main Parcels was characterized as special waste, with the exception of some material excavated deeper than 3 feet bgs with visible contamination in the vicinity of source material encountered in the tar tank and gas holder excavation areas, and the

valve/wier boxes. Special waste soil was loaded into end-dump trucks, manifested as special waste, and transported to Waste Management's CID facility in Chicago, Illinois. The total volume of special waste and debris removed from the area was approximately 25,020 tons.

5.5.2 Soil Manifested as Hazardous Waste in Illinois

Some material removed deeper than 3 feet bgs in the tar tank area, gas holder area, and valve/wier box excavation areas was characterized as RCRA hazardous waste in the State of Illinois based on the waste characterization sample RPM-SP61-005. This sample had a TCLP benzene concentration greater than the regulatory level of 0.5 mg/L. The material was loaded into lined end-dump trucks or roll-off boxes, manifested as hazardous waste, and transported to the Heritage Roachdale Subtitle-C Landfill in Roachdale, Indiana. Approximately 1,137 tons of this material was disposed of as special waste. Each manifest clearly stated the following in Box J:

This consignment is not hazardous waste in the State of Indiana per the Indiana Department of Environmental Management correspondence dated January 21, 2001 to Regina Mahoney from Leah Fouty and the American Battery Recyclers, Inc. et al vs. USEPA (April 21, 2000).

5.5.3 Waste Water

As needed to facilitate excavation activities, stormwater runon/runoff was pumped from the tar tank and gas holder excavation areas. Water pumped from these areas was temporarily stored in an onsite frac tank and then transported offsite to the Waste Management CID Bioplant in Calumet City, Illinois or Beaver Oil Company, Inc. in Hodgkins, Illinois for treatment. During the excavation of the three valve/wier boxes, oily water was present inside of the boxes. The water contained inside of the valve/wier boxes was removed via vacuum truck and transported offsite to the above mentioned facilities. Water collected from the tar tank excavation, gas holder excavation, and the valve/wier boxes was not sampled during excavation activities, but was conservatively assumed to be hazardous for disposal purposes. One sludge sample (RPM-WCC) was collected from the southeast valve/wier box and the results were used to generate Beaver Oil Company Waste Survey Forms. Appendix E contains the Chain of Custody for sample RPM-WCC and the water survey forms from Beaver Oil Company. A total of 97,037 gallons was collected from the frac tank and valve/wier boxes.

5.5.4 Additional Waste

During excavation, piping and valves in the valve/wier boxes were removed. The piping and valves were made of steel and cast iron and were decontaminated and transported off site to United Scrap in Cicero, Illinois. Appendix B contains the United Scrap Drivers Ticket.

During excavation of the tar tank and gas holder areas and during decontamination of the valve/wier boxes, the workers were personal protective equipment (PPE). The PPE and debris (paper/plastic) was stored in 55-gallon drums. The generated waste was transported offsite to the Michigan Disposal Waste Treatment Plant in Belleville, MI in two (2) 55-gallon drums. Appendix B contains the waste characterization report submitted to the Michigan Disposal Waste Treatment Plant.

5.6 CONFIRMATION SOIL SAMPLES

Confirmation soil sampling was performed in order to verify that soil exceeding TACO Tier 1 residential screening levels was removed. Also, soil exceeding the TACO Tier 1 construction worker objective for inhalation of naphthalene was confirmed to be removed. Confirmation samples were analyzed for either BTEX, styrene, PAHs (8270 SIM), total and SPLP beryllium, total and SPLP chromium, and total and SPLP lead. The results were compared to Tier 1 residential or construction worker screening levels (remediation objectives specified in Section 4.1). If measured concentrations exceeded the remediation objectives, the areas from which they were collected were excavated further. Once this was complete, another confirmation sample was taken. If measured concentrations exceeded the Tier 1 remediation objectives in the tar tank or gas holder excavations, the locations were excavated an additional 6 inches, prior to collection of another grab sample. This process continued until the remediation objectives were achieved. Confirmation sampling locations are detailed on Figure 5.

Confirmation composite samples were collected in the southern portion of the Pond Parcel. This area was divided into 1/8 acre plots from which composite confirmation samples were collected. Based on the size of the site, ten (10) areas were delineated. The initial composite samples were analyzed for PAHs, total and SPLP beryllium, total and SPLP chromium, and total and SPLP lead. Certain areas required additional excavation after initial confirmation sample results were obtained. These areas were excavated further and additional confirmation samples were collected and analyzed for PAHs, with the exception of one sample that was analyzed for PAHs and SPLP lead. Table 6 presents the results of confirmation sampling.

Confirmation grab samples were collected in the tar tank and gas holder excavations. In the tar tank excavation, the side walls were sampled at four (4) locations. At each location, upper and lower samples were collected at depths of approximately 3.0 feet bgs and 8.0 feet bgs, respectively. One (1) grab sample was collected in the bottom center of the excavation at a depth of approximately 12 feet bgs.

In the gas holder excavation, the side walls were sampled at eight (8) locations. At each location, upper and lower samples were collected at depths of approximately 3.0 feet bgs and 8.0 feet bgs, respectively. One (1) grab sample was collected in the bottom center of the excavation at a depth of approximately 12 feet bgs. The initial grab samples were analyzed for BTEX, styrene, PAHs, total and SPLP lead. Certain areas (RPM-CSH-06 and RPM-CSH-07) required additional excavation after initial confirmation sample results were obtained. These areas were excavated further and additional confirmation samples were collected and analyzed for BTEX, styrene, and PAHs (See Table 6).

Three (3) confirmation grab samples were collected around the southeast valve/wier box 24-inch cast iron pipe outlet, as shown on Figure 6. Samples RPM-N-Pipe, RPM-S-Pipe, and RPM-B-Pipe were collected at depths of approximately 2 feet bgs, 2 feet bgs, and 5 feet bgs, respectively. The initial grab samples were analyzed for BTEX, styrene, PAHs, total and SPLP lead.

Confirmation samples were sent to STAT. Analytical data is included in Appendix G.

5.7 POTENTIAL STORMWATER RUNON/RUNOFF AND SOIL EROSION AND SEDIMENT CONTROL

Erosion and sediment controls were implemented during construction activities including:

- Sequenced construction;
- Maintenance of erosion and sediment controls (silt fences);
- Installation of a sheet pile wall earth retention system;
- Construction of berms around the excavations;
- Excavated soil from the staging area was loaded onto trucks as quickly as possible; and
- Staged soils that were left on site overnight were compacted and covered with tarps.

Routine inspections of erosion and sediment control features were conducted on a daily basis, after each rainfall and during periods of extended rainfall. Repairs, if necessary, were made immediately.

5.8 BACKFILLING

Backfilling was used on the Pond Parcel in order to fill in the excavated holes. Backfilling to grade occurred in the area of the sheet pile wall. The site was not fully restored due to the future plans to sell and then develop the property. Figure 6 shows a summary of the completed backfilling.

5.8.1 Gas Holder Excavation

Backfilling of the gas holder began in August 2001. The gas holder was backfilled with 3-inch crushed concrete up to a depth of approximately 3 feet bgs. A fabric liner was then placed on top of the crushed concrete and CA-6 (crushed concrete) was placed above the stone to a depth of approximately 5-feet bgs. Once the fill was in place it was leveled.

5.8.2 Tar Tank Excavation

The tar tank excavation was backfilled with 3-inch crushed concrete to a depth of approximately 6 feet bgs. The CA-6 stone was placed at a depth of 6 inches above the ground surface in the western half of the excavation in order to provide support for the sheet piling which was left in place. However, in the eastern half of the excavation, only 3 feet of CA-6 stone was placed above the fabric. Once the fill was in place it was leveled.

5.8.3 Valve/Wier Box Excavation

Backfilling of the valve/wier boxes began in August 2001, including the one (1) valve/wier box contained on the Pond Parcel. Crushed concrete from the gas holder wall was placed at a depth of approximately 2 feet, on top of which was placed 5 feet of 3-inch crushed concrete. Five feet of CA-6 stone was then used to completely fill the valve/wier boxes. The northwest and northeast valve/wier boxes were covered with asphalt, because they are located directly in the company parking lot.

5.8.4 Miscellaneous Steel Tar Pipe Excavation

The 2-inch steel tar pipe excavation backfilling began in September 2001. Similar to the valve/wier boxes, the backfilling consisted of a 2 foot bottom layer of crushed concrete from the gas holder wall, a

middle 5 foot layer of 3-inch crushed concrete covered with fabric, and a top 5 foot layer of CA-6. This excavation was also completely filled.

5.9 DEMOBILIZATION AND SITE RESTORATION

After completion of soil removal activities, the following cleanup and site restoration activities were performed:

- Decontamination of potentially impacted equipment; and
- Removal of temporary construction trailer.

6.0 RESULTS

This section presents all sampling results, which demonstrate that all remedial objectives have been met.

6.1 CONFIRMATION SAMPLING

Confirmation sampling was done in accordance with the remedial objectives described in Section 4.0 of this report in order to confirm that the objectives were met. Table 6 summarizes the confirmation sampling results and the site-specific remedial objectives. Certain areas required additional excavation after initial confirmation sample results were obtained. These areas were excavated further and additional confirmation samples were collected and analyzed. Excavation continued until remediation objectives were met. Figure 6 is an as-built excavation map, showing the areas of confirmation sampling. Appendix G contains the soil analytical data.

6.1.1 Composite Samples

The majority of the first round of composite confirmation samples were below the site-specific remediation objectives with the exception of areas RPP-CS02, RPP-CS04, RPP-CS07, and RPP-CS08.

- Confirmation sample RPP-CS02-001 barely exceeded the SPLP lead remediation objective of 0.1 mg/L at a concentration of 0.117 mg/L. The SPLP lead detection is suspect, because the total lead concentration is significantly lower than typical samples that exceed SPLP lead. Also, the sample was collected in the area of an abandoned steel pipe that was subsequently excavated and removed. Therefore, further excavation and removal in the area occurred, and the result is no longer valid.
- Area RPP-CS04 required additional sampling due to exceedences of SPLP lead, benzo(a)anthracene, benzo(b)fluoranthene, benzo(a)pyrene, and dibenzo(a,h)anthracene. Four (4) confirmation samples were collected in area RPP-CS04 until the results were below the remedial objectives. Remedial objectives were met by sample RPP-CS04-004 that was collected at a depth approximately 10 feet bgs.
- Area RPP-CS07 required additional sampling due to exceedences of benzo(a)anthracene, benzo(b)fluoranthene, benzo(a)pyrene, and dibenzo(a,h)anthracene. Three (3) confirmation samples were collected in area RPP-CS07 until the results were below the remedial objectives. Remedial objectives were met by sample RPP-CS07-003 that was collected at a depth of approximately 1.5 feet bgs.
- Area RPP-CS08 required additional sampling due to exceedences of benzo(a)pyrene. Three (3)
 confirmation samples were collected in area RPP-CS08 until the results were below the remedial

objectives. Remedial objectives were met by sample RPP-CS08-003 that was collected at a depth of approximately 3 feet bgs.

6.1.2 Grab Samples

All confirmation grab samples collected in the tar tank excavation, gas holder excavation, and southeast valve/wier box 24-inch cast iron pipe outlet excavation were below the residential remedial objectives, with the exception of two sample locations located inside of the gas holder excavation. Sample RPM-CSH-06U exceeded benzo(a)anthracene and benzo(a)pyrene. Sample RPM-CSH-07U exceeded benzene only. These two (2) upper sample locations are located along the north side of the gas holder excavation and were excavated an additional 6 inches and resampled. The second round of samples (RPM-CSH-06U-02 and RPM-CSH-07U-02) collected from the two areas were below the remedial objectives.

6.2 AIR SAMPLING

Ambient air monitoring results confirm that removal activities did not present adverse health effects for nearby residents. Analytical results show that the allowable concentration for BTEX constituents were not exceeded during handling of impacted material. Air monitoring results are presented in Appendix G.

7.0 SPECIAL CONDITIONS

In accordance with 35 IAC Part 742 and Section 742.1015, Subpart J, no special conditions apply to the Rogers Park Sub-Shop Pond Parcel site. The remedial action is a final action, and a Comprehensive No Further Remediation Letter is anticipated. No institutional controls or monitoring are required.

8.0 CONCLUSIONS

The remedial objectives for the Rogers Park Sub-Shop Pond Parcel site in Section 4.0 were met as a result of the excavation activities described in Section 5.0. All soil that exceeded remediation objectives was removed from the Pond Parcel. Remaining soil was confirmed to meet remediation objectives. No special conditions are required to be implemented on the site.

The data presented within this ROR/RAP/RACR is accurate and complete. No further remedial action activity is necessary on the Pond Parcel and a Comprehensive No Further Remediation letter is anticipated.

9.0 REFERENCES

- 1. Burns & McDonnell, 2001a. Rogers Park Sub-Shop Pond Parcel Site Investigation Data Book. Chicago, Illinois. September.
- 2. Burns & McDonnell, 2001b. Rogers Park Sub-Shop Pond Parcel Site Investigation Report. Chicago, Illinois. September.
- 3. Burns & McDonnell, 2001c. Site Health and Safety Plan for Peoples Gas Rogers Park. Chicago, Illinois. March.
- 4. Burns & McDonnell, 2001d. Remedial Action Manifests, Weight Tickets, and Summary of Disposal Quantities. Chicago, Illinois. October
- 5. Gilbert, R.O., 1987. Statistical Methods for Environmental Pollution Monitoring, John Wiley & Sons, Inc., New York.
- 6. Hanson Engineers Incorporated, 1992. Preliminary Site Investigation North Shore Avenue Station Gas Storage Facility; Chicago, Illinois.
- 7. Illinois EPA, 2001. Tiered Approach to Corrective Action Objectives (TACO), Part 742: Title 35.
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- 9. Illinois EPA, 1997. Groundwater Quality, Part 620; Title 35.
- 10. Roy F. Weston, 2000. Comprehensive Site Investigation Report, The Peoples Gas Light and Coke Company Rogers Park Sub-Shop Property, South Parcel, 6659 North Kedzie Avenue Chicago, Illinois.
- 11. U.S. Environmental Protection Agency (USEPA) 1984. *Health Assessment Document for Inorganic Arsenic*. Research Triangle Park, NC.

TABLES

Table 1
Summary of Detected Constituents and Comparison with Remediation Objectives - Soil
Rogers Park Pond Parcel

	1	AbeA		Sample Location and Depth (feet below ground surface)/Concentration				
		Remediation					RPM-SB21-004	,
		Objectives	1	0-1'	1-2'	2-3'	8-10'	0-0.5'
Compound/Analyte	Soil to GW		Inhalation	WT ~ NE	WT~NE	WT~NE	WT~NE	WT ~ 7'
Compounds many c	I DON'TO O'N	Ingostion	<u> </u>	TCL VOCs (mg/k			<u> </u>	
Benzene	0.17	22	0.8	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U
Carbon Disulfide	160	7,800	720	NA	NA	NA	NA	NA
Ethylbenzene	19	7,800	400	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
Styrene	18	16.000	1,500	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
Toluene	29	16,000	- 650	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
Xylenes (total)	150	160,000	410	0.005 U	0.005 U	0.005 U	0.005 U	0.006
Aylenes (total)	130	100,000	<u> </u>	CL SVOCs (mg/l		0.005 0	0.003 0	0.000
Acenaphthene	2,900	4.700		0.025 U	0.025 U	0.025 U	0.025 U	0.033
Acenapthylene	2,500			0.025 U	0.025 U	0.025 U	0.025 U	0.710
Anthracene	59,000	23,000		0.025 U	0.025 U	0.025 U	0.025 U	0.223
Benzofalanthracene	39,000	0.9		0.040	0.025 U	0.025 U	0.025 U	0.663
Benzo[b]fluoranthene	25	0.9		0.030	0.025 U	0.025 U	0.025 U	0.435
Benzo[k]fluoranthene	250	9	<u> </u>	0.030	0.025 U	0.025 U	0.025 U	0.161
Benzo[g,h,i]perylene				0.025 U	0.025 U	0.025 U	0.025 U	0.277
Benzo[a]pyrene	82	0.09		0.030	0.025 U	0.025 U	0.025 U	0.271
Chrysene	800	88		0.054	0.025 U	0.025 U	0.025 U	1.37
Dibenzofa hlanthracene	7.6	0.09		0.025 U	0.025 U	0.025 U	0.025 U	0.281
Dibenzofuran	7.0	0.09		NA	NA	NA	NA	NA
Fluoranthene	21,000	3,100		0.072	0.025 U	0.025 U	0.025 U	1.19
Fluorene	2,800	3,100		0.025 U	0.025 U	0.025 U	0.025 U	0.176
Hexachlorocyclopentadiene	2200	550	10	NA NA	0.023 G NA	NA	NA	NA NA
Indeno[1,2,3-cd]pyrene	69	0.9		0.025 U	0.025 U	0.025 U	0.025 U	0.267
2-Methylnaphthalene				0.025 U	0.025 G	NA	NA	NA
Naphthalene	18	1,600	1.8	0.025 U	0.025 U	0.025 U	0.025 U	0.025
N-nitrosodiphenylamine	5.6	130	1.0	NA	0.025 C	NA	NA NA	NA
Phenanthrene	3.0	130		0.033	0.025 U	0.025 U	0.025 U	0.431
Pyrene	21,000	2,300		0.070	0.025 U	0.025 U	0.025 U	1.32
Fylene	21,000	2,300	1	Pollutant Metals		0.023 0	0.025 0	1.52
Antimony	20	31	1110110	NA NA	NA NA	NA	NA	NA
Anumony Arsenic*	120	13	750	7.58	16.50	9.89	6.71	5.13
Barium	1,800	5,500	690,000	364	85.10	67.00	71.40	392
Beryllium	130,000	160	1,300	NA NA	NA NA	NA	NA NA	NA
Cadmium	590	78	1,800	0.617	0.50 U	0.50 U	0.50 U	1.36
Chromium***	28	390	270	32.9		29.20	28.90 NR	49.5
Copper	330,000	2,900		NA NA	NA NA	NA	NA	NA
Lead**	330,000	400		678.0	21.70	20.30	16.00	3.220
Mercury	32	23	10	0.069	0.04 U	0.04 U	0.04 U	0.095
Nickel	14,000	1,600	13,000	NA NA	NA NA	NA	NA NA	NA
Selenium	2.4	390	15,000	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U
Silver***	39	390		0.500 U	0.50 U	0.50 U	0.50 U	0.500 U
Thallium	34	6.3		NA	NA NA	NA	NA	NA
Zinc	32,000	23,000		NA	NA NA	NA NA	NA NA	NA
Total Cyanide	120	1,600		0.25 U	0.25 U	0.25 U	0.25 U	0.25 U
i otai Cyamuc	140	1,000		ead and Chromiur		0.45 0	0.25 0	3.23 0
ביין מוזמי				0.074		N! A	NA	0.093
SPLP Lead	0.1				NA 0.014	NA NA		0.093 NA
SPLP Chromium	1.0			NA	0.014	INA	0.005 U	INA

NOTES:

- (1) U Indicates compound/analyte was analyzed for but not detected, the associated value is the sample reporting limit.
- (2) J Indicates an estimated value.
- (3) NA Not Analyzed
- (4) Shaded values exceeded Tier 1 screening level.
- (5) -- Toxicity criteria not available for exposure route (Illinois EPA 2001)
- (6) ** No pH-dependent value was available so SPLP analyses from select samples was used to evaluate this pathway.
- (7) *** No pH-dependent Class II value was available therefore the Class I value was used to evaluate this pathway
- (8) * Calculated 95% upper confidence limit for arsenic at the site (9 007 mg/kg) is below the 13 mg/kg remediation objective.
- (9) Tier 1 inhalation objective for naphthalene pertains to construction worker scenario, because it is more stringent than residential scenario

		Tier 1		Sample	Location and Dep	th (feet below gro	und surface)/Conc	entration
		Remediation	ı	RPM-SB22-002	RPM-SB22-003	RPM-SB22-004	RPM-SB22-005	RPM-SB23-001
	.	Objectives		0.5-1'	1-2'	2-3'	5-7'	0-0.5'
Compound/Analyte	Soil to GW	Ingestion	Inhalation	WT ~ 7'	WT ~ 7'	WT ~ 7'	WT ~ 7'	WT ~ NE
				TCL VOCs (mg/k	g)			
Benzene	0.17	22	0.8	0.002 U	0.002	0.002	0.002 U	0.002
Carbon Disulfide	160	7,800	720	NA	NA	NA	NA	NA
Ethylbenzene	19	7,800	400	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
Styrene	18	16,000	1,500	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
Toluene	29	16,000	650	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
Xylenes (total)	150	160,000	410	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
			7	CL SVOCs (mg/l	cg)			
Acenaphthene	2,900	4,700		0.025 U	0.025 U	0.025 U	0.025 U	0.025 U
Acenapthylene				0.160	0.372	0.025 U	0.025 U	0.025 U
Anthracene	59,000	23,000		0.047	0.113	0.025 U	0.025 U	0.039
Benzo[a]anthracene	8	0.9		0.125	0.274	0.027	0.025 U	0.143
Benzo[b]fluoranthene	25	0.9		0.089	0.230	0.025 U	0.025 U	0.100
Benzo[k]fluoranthene	250	9		0.094	0.233	0.025 U	0.025 U	0.122
Benzo(g,h,i)perylene				0.072	0.150	0.025 U	0.025 U	0.094
Benzo[a]pyrene	82	0.09		0.240	0.268	0.025 U	0.025 U	0.104
Chrysene	800	88		0.239	0.500	0.034	0.025 U	0.157
Dibenzofa.hlanthracene	7.6	0.09	-	0.025 U	0.065	0.025 U	0.025 U	0.030
Dibenzofuran				NA	NA	NA	NA	NA
Fluoranthene	21,000	3,100		0.145	0.413	0.025 U	0.025 U	0.275
Fluorene	2.800	3,100		0.025 U	0.090	0.025 U	0.025 U	0.025 U
Hexachlorocyclopentadiene	2200	550	10	NA	NA	NA	NA	NA
Indeno[1,2,3-cd]pyrene	69	0.9		0.025 U	0.152	0.025 U	0.025 U	0.025 U
2-Methylnaphthalene				NA	NA	NA	NA	NA
Naphthalene	18	1,600	1.8	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U
N-nitrosodiphenylamine	5.6	130		NA	NA	NA	NA	NA
Phenanthrene				0.090	0.311	0.025 U	0.025 U	0.150
Pyrene	21,000	2,300		0.026	0.593	0.034	0.025 U	0.228
			Priority	y Pollutant Metals	(mg/kg)			
Antimony	20	31		NA	NA	NA	NA	NA
Arsenic*	120	13	750	4.51	4.51	6.54	12.30	7.18
Barium	1,800	5,500	690,000	184	82.3	83.80	60.10	126
Beryllium	130,000	160	1,300	NA	NA	NA	NA	NA
Cadmium	590	78	1,800	1.74	1.01	0.50 U	0.50 U	0.500 U
Chromium***	28	390	270	21.3	20.1	27.30	25.70	22.5
Copper	330,000	2,900		NA	NA	NA	NA .	NA
Lead**		400		7,230	950	30.40	19.40	42.0
Mercury	32	23	10	0.040 U	0.040 U	0.04 U	0.04 U	0.043
Nickel	14,000	1,600	13,000	NA	NA	NA	NA	NA
Selenium	2.4	390		1.00 U	1.00 U	1.00 U	1.00 U	1.00 U
Silver***	39	390		0.500 U	0.500 U	0.50 U	0.50 U	0.500 U
Thallium	34	6.3		NA	NA	NA	NA	NA
Zinc	32,000	23,000		NA	NA	NA	NA	NA
Total Cyanide	120	1,600		0.25 U	0.25 U	0.25 U	0.25 U	0.25 U
· · · · · · · · · · · · · · · · · · ·			SPLP L	ead and Chromiur	n (mg/L)			
SPLP Lead	0.1			0.005	0.031	NA	NA	0.005
SPLP Chromium	1.0			NA	NA	NA	NA	NA

- (1) U Indicates compound/analyte was analyzed for but not detected, the associated value is the sample reporting limit
- (2) J Indicates an estimated value.
- (3) NA Not Analyzed
- (4) Shaded values exceeded Tier 1 screening level
- (5) -- Toxicity criteria not available for exposure route (Illinois EPA 2001).
- (6) ** No pH-dependent value was available so SPLP analyses from select samples was used to evaluate this pathway.
- (7) *** No pH-dependent Class II value was available therefore the Class I value was used to evaluate this pathway.
- (8) * Calculated 95% upper confidence limit for arsenic at the site (9 007 mg/kg) is below the 13 mg/kg remediation objective
- (9) Tier 1 inhalation objective for naphthalene pertains to construction worker scenario, because it is more stringent than residential scenario

		Tier 1			Location and Dept			
		Remediation	1		RPM-SB23-003			RPM-SB24-001
		Objectives		0.5-1'	1-2'	2-3'	8-10'	0.5-1'
Compound/Analyte	Soil to GW	Ingestion	Inhalation	WT ~ NE	WT~NE	WT ~ NE	WT~NE	WT ~ 10'
				TCL VOCs (mg/k	g)			-
Benzene	0.17	22	0.8	0.002 U	0.002 U	0.005	0.002 U	0.002U
Carbon Disulfide	160	7,800	720	NA	NA	NA	NA	NA
Ethylbenzene	19	7,800	400	0.005 U	0.005 U	0.006	0.005 U	0.005U
Styrene	18	16,000	1,500	0.005 U	0.005 U	0.005 U	0.005 U	0.005U
Toluene	29	16,000	650	0.005 U	0.005 U	0.012	0.005 U	0.005U
Xylenes (total)	150	160,000	410	0.005 U	0.005 U	0.007	0.005 U	0.005U
			7	TCL SVOCs (mg/k	(g)			
Acenaphthene	2,900	4,700		0.025 U	0.025 U	0.025 U	0.025 U	0.025U
Acenapthylene				0.025 U	0.025 U	0.025 U	0.025 U	0.025U
Anthracene	59,000	23,000		0.025 U	0.025 U	0.025 U	0.025 U	0.027
Benzo[a]anthracene	8	0.9		0.025 U	0.025 U	0.025 U	0.025 U	0.085
Benzo[b]fluoranthene	25	0.9		0.025 U	0.025 U	0.025 U	0.025 U	0.053
Benzo[k]fluoranthene	250	9		0.025 U	0.025 U	0.025 U	0.025 U	0.067
Benzo[g,h,i]perylene				0.025 U	0.025 U	0.025 U	0.025 U	0.036
Benzo[a]pyrene	82	0.09		0.025 U	0.025 U	0.025 U	0.025 U	0.045
Chrysene	800	88		0.025 U	0.025 U	0.025 U	0.025 U	0.084
Dibenzo[a,h]anthracene	7.6	0.09		0.025 U	0.025 U	0.025 U	0.025 U	0.025U
Dibenzofuran		••		NA .	NA	NA	NA	NA
Fluoranthene	21,000	3,100		0.025 U	0.025 U	0.025 U	0.025 U	0.175
Fluorene	2,800	3,100		0.025 U	0.025 U	0.025 U	0.025 U	0.025U
Hexachlorocyclopentadiene	2200	550	10	NA	NA	NA	NA	NA
Indeno[1,2,3-cd]pyrene	69	0.9		0.025 U	0.025 U	0.025 U	0.025 U	0.040
2-Methylnaphthalene				NA	NA NA	NA	NA	NA
Naphthalene	18	1,600	1.8	0.025 U	0.025 U	0.025 U	0.025 U	0.025U
N-nitrosodiphenylamine	5.6	130		NA	NA	NA	NA	NA
Phenanthrene				0.025 U	0.025 U	0.025 U	0.025 U	0.076
Pyrene	21,000	2,300		0.025	0.025 U	0.025 U	0.025 U	0.173
	m·	,	Priority	Pollutant Metals			,	
Antimony	20	31		NA	NA	NA	NA	NA
Arsenic*	120	13	750	6.44	5.53	4.58	10.2	14.60
Barium	1,800	5,500	690,000	71.3	46.8	49.9	65.2	23.10
Beryllium	130,000	160	1,300	NA NA	NA NA	NA .	NA NA	NA NA
Cadmium	590	78	1,800	0.500 U	0.500 U	0.500 U	0.500 U	0.5U
Chromium***	28	390	270	23.0	20.3	23.3	27.0	19.80
Copper	330,000	2,900		NA 24.7	NA NA	NA 12.5	NA I	NA 22.50
Lead**	32	400	10	24.7 0.040 U	35.8 0.040 U	12.5 0.040 U	15.1 0.040 U	32.50 0.04U
Mercury Nickel	14,000	23	13,000	0.040 U NA	0.040 U	0.040 U	0.040 U	0.040 NA
		1,600	13,000		· · · · · · · · · · · · · · · · · · ·			
Selenium Silver***	2.4	390 390		1.00 U 0.500 U	1.00 U 0.500 U	1.00 U 0.500 U	1.00 U 0.500 U	1.04 0.5U
Thallium	39	6.3		0.500 U NA	0.500 U NA	0.500 U	0.500 U	0.5U NA
Zinc	32,000	23,000		NA NA	NA NA	NA NA	NA NA	NA NA
	120	1,600		0.25 U	0.25 U	0.25 U	0.25 U	0.25U
Total Cyanide	120	1,000	CDI D.I			0.23 0	0.43 U	0.230
IDI D. I J.	0.1	·····		ead and Chromium	 	574	374 T	N. I.
SPLP Lead	0.1			NA	NA NA	NA	NA NA	NA NA
SPLP Chromium	1.0	<u> </u>	<u> </u>	NA	NA	NA	NA	NA

- (1) U Indicates compound/analyte was analyzed for but not detected, the associated value is the sample reporting limit
- (2) J Indicates an estimated value
- (3) NA Not Analyzed
- (4) Shaded values exceeded Tier 1 screening level.
- (5) -- Toxicity criteria not available for exposure route (Illinois EPA 2001).
- (6) ** No pH-dependent value was available so SPLP analyses from select samples was used to evaluate this pathway
- (7) *** No pH-dependent Class II value was available therefore the Class I value was used to evaluate this pathway.
- $(8) * Calculated 95\% \ upper \ confidence \ limit \ for \ arsenic \ at the \ site \ (9.007 \ mg/kg) \ is \ below \ the \ 13 \ mg/kg \ remediation \ objective.$
- (9) Tier 1 inhalation objective for naphthalene pertains to construction worker scenario, because it is more stringent than residential scenario

		Tier 1			Location and Dept			
	ı	Remediation		RPM-SB24-002	RPM-SB24-003	RPM-SB25-001	RPM-SB25-002	
	ļ	Objectives		3-4'	5-7'	2-3'	5-7'	0-1'
Compound/Analyte	Soil to GW	Ingestion	Inhalation	WT ~ 10'	WT ~ 10'	WT ~ 9'	WT ~ 9'	WT-NE .
				TCL VOCs (mg/k	g)			
Benzene	0.17	22	0.8	0.007	0.002	0.002U	0.003J	0.002 U
Carbon Disulfide	.160	7,800	720	NA	NA	NA	NA	NA
Ethylbenzene	19	7,800	400	0.005U	0.005U	0.005U	0.005U	0.005 U
Styrene	18	16,000	1,500	0.005U	0.005U	0.005U	0.005U	0.005 U
Toluene	29	16,000	650	0.005U	0.005U	0.005U	0.005U	0.005 U
Xylenes	150	160,000	410	0.005U	0.005U	0.005U	0.005U	0.005 U
			7	CL SVOCs (mg/l				
Acenaphthene	2,900	4,700		0.025U	0.025U	0.025U	0.025U	0.025U
Acenaphthylene				0.025U	0.025U	0.025U	0.025U	0.025U
Anthracene	59,000	23,000		0.025U	0.025U	0.025U	0.025U	0.046
Benzo(a)anthracene	8	0.9		0.025U	0.025U	0.025U	0.025U	0.138
Benzo(b)fluoranthene	25	0.9		0.025U	0.025U	0.025U	0.025U	0.054
Benzo(k)fluoranthene	250	9		0.025U	0.025U	0.025U	0.025U	0.054
Benzo(g,h,I)perylene				0.025U	0.025U	0.025U	0.025U	0.025 U
Benzo(a)pyrene	82	0.09		0.025U	0.025U	0.025U	0.025U	0.060
Chrysene	800	88		0.025U	0.025U	0.025U	0.025U	0.171
Dibenzo[a,h]anthracene	7.6	0.09		0.025U	0.025U	0.025U	0.025U	0.025 U
Dibenzofuran				NA	NA	NA	NA	NA
Fluoranthene	21,000	3,100		0.025U	0.025U	0.034	0.025U	0.338
Fluorene	2,800	3,100		0.025U	0.025U	0.025U	0.025U	0.025 U
Hexachlorocyclopentadiene	2200	550	10	NA	NA	NA	NA	NA.
Indeno(1,2,3-cd)pyrene	69	0.9		0.025U	0.025U	0.025U	0.025U	0.026
2-Methylnaphthalene			<u></u>	NA	NA	NA	NA	NA 0.005 II
Naphthalene	18	1,600	1.8	0.025U	0.025U	0.025U	0.025U	0.025 U
N-nitrosodiphenylamine	5.6	130	<u> </u>	NA	NA	NA	NA 0.00577	NA 0.150
Phenanthrene				0.025U	0.025U	0.025U	0.025U	0.159
Pyrene	21,000	2,300	<u> </u>	0.025U	0.025U	0.040	. 0.025U	0.276
	II 20 I	21	Priorit	Poliutant Metals	(mg/kg) NA	NA	NA	NA
Antimony	20	31		NA 10.70	5.72	7.83	2.44	5.39
Arsenic*	120	13	750 690,000	10.70 60.20	39.40	73.40	39.70	63.1
Barium	1,800	5,500		NA	NA	/3.40 NA	NA	NA
Beryllium	130,000	160	1,300 1,800	0.5U	0.5U	0.5U	0.5U	0.500 U
Cadmium	590	78 390	270	27.00	16.70	26.20	16.80	17.1
Chromium***	28	2,900		NA	NA	NA	NA NA	NA
Copper	330,000	400		18.70	16.90	16.70	14.10	77.7
Lead**	32	23	10	0.050	0.044	0.04U	0.04U	0.134
Mercury	14.000	1,600	13,000	0.030 NA	NA	NA	NA NA	NA NA
Nickel	2.4	390	13,000	10	1U	10	1U	1.00 U
Selenium Silver***	39	390		0.5U	0.5U	0.5U	0.5U	0.500 U
	39	6.3		NA NA	NA NA	NA.	NA.	NA
Thallium	32,000	23,000		NA .	NA NA	NA NA	NA NA	NA NA
Zinc Total Cyanide (amenable)	120	1,600		0.25U	0.25U	0.25U	0.25U	0.25 U
rotai Cyanide (amenabie)	120	1,000		ead and Chromiur		5.550	5.250	3.20
ODI D.I	0.1			NA NA	n (mg/L) NA	NA	NA	0.005 U
SPLP Lead	0.1				NA NA	NA NA	NA NA	0.003 C
SPLP Chromium	1.0			NA NA	INA I	INV	110	

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- (2) J Indicates an estimated value.
- (3) NA Not Analyzed
- (4) Shaded values exceeded Tier 1 screening level.
- (5) -- Toxicity criteria not available for exposure route (Illinois EPA 2001).
- (6) ** No pH-dependent value was available so SPLP analyses from select samples was used to evaluate this pathway
- (7) *** No pH-dependent Class II value was available therefore the Class I value was used to evaluate this pathway.
- (8) * Calculated 95% upper confidence limit for arsenic at the site (9.007 mg/kg) is below the 13 mg/kg remediation objective.
- (9) Tier I inhalation objective for naphthalene pertains to construction worker scenario, because it is more stringent than residential scenario

		Tier 1			Location and Dep			
		Remediation		RPM-SB26-002	RPM-SB26-003	RPM-SB27-001	RPM-SB27-002	
		Objectives		2-3'	8-10'	1-2'	2-3'	7-9'
Compound/Analyte	Soil to GW	Ingestion	Inhalation	WT ~ NE	WT ~ NE	WT ~ NE	WT ~ NE	WT~NE
				TCL VOCs (mg/k	g)			
Benzene	0.17	22	0.8	0.002 U	0.002 U	0.004	0.002	0.002 U
Carbon Disulfide	160	7,800	720	NA	NA	NA	NA	NA
Ethylbenzene	19	7,800	400	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U_
Styrene	18	16,000	1,500	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
Toluene	29	16,000	650	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
Xylenes (total)	150	160,000	410	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
			7	TCL SVOCs (mg/l		,		
Acenaphthene	2,900	4,700		0.072	0.025 U	0.025 U	0.025 U	0.025 U
Acenapthylene				0.264	0.025 U	0.085	0.025 U	0.062
Anthracene	59,000	23,000		0.260	0.025 U	0.034	0.025 U	0.029
Benzo[a]anthracene	8	0.9		0.712	0.025 U	0.082	0.025 U	0.057
Benzo[b]fluoranthene	25	0.9		0.613	0.025 U	0.049	0.025 U	0.034
Benzo[k]fluoranthene	250	9		0.519	0.025 U	0.030	0.025 U	0.027
Benzo[g,h,i]perylene				0.329	0.025 U	0.025 U	0.025 U	0.029
Benzo[a]pyrene	82	0.09		1.21	0.025 U	0.048	0.025 U	0.036
Chrysene	800	88		0.810	0.025 U	0.122	0.025 U	0.119
Dibenzo[a,h]anthracene	7.6	0.09		0.088	0.025 U	0.025 U	0.025 U	0.025 U
Dibenzofuran				NA	NA NA	NA	NA	NA .
Fluoranthene	21,000	3,100		1.26	0.025 U	0.172	0.025 U	0.151
Fluorene	2,800	3,100		0.142	0.025 U	0.025 U	0.025 U	0.031
Hexachlorocyclopentadiene	2200	550	10	NA .	NA	NA	NA	NA
Indeno[1,2,3-cd]pyrene	69	0.9		0.054	0.025 U	0.025 U	0.025 U	0.028
2-Methylnaphthalene		<u> </u>		NA	NA	NA	NA NA	NA 0.005 II
Naphthalene	18	1,600	1.8	0.025	0.025 U	0.025 U	0.025 U	0.025 U
N-nitrosodiphenylamine	5.6	130		NA NA	NA	NA 0.000	NA 0.025 II	NA 0.087
Phenanthrene				0.685	0.025 U	0.098	0.025 U 0.025 U	0.087
Pyrene	21,000	2,300		1.18	0.025 U	0.157	0.023 0	0.131
		2.	Priorit	y Pollutant Metals NA	(mg/kg) NA	NA	NA NA	NA
Antimony	20	31	750	7.57	5.05	5.20	3.79	4.77
Arsenic*	120	13	690,000	62.1	62.1	61.0	68.2	96.0
Barium	1,800	5,500 160	1,300	NA	NA	NA.	NA NA	NA
Beryllium Cadmium	590	78	1,800	0.500 Ú	0.500 U	0.500 U	0.500 U	0.500 U
Chromium***	28	390	270	18.5	24.7	15.9	29.6	25.1
Copper	330,000	2,900		NA NA	NA NA	NA	NA	NA
Lead**	330,000	400		122	12.5	281	18.6	14.0
Mercury	32	23	10	0.054	0.040 U	0.043	0.040 U	0.040 U
Nickel	14.000	1,600	13,000	NA	NA NA	NA	NA	NA
Selenium	2.4	390		1.00 U	1.00 U	1.00 U	1.00 U	1.00 U
Silver		390		0.500 U	0.500 U	0.500 U	0.500 U	0.500 U
Thallium	34	6.3		NA	NA	NA	NA	NA
Zinc	32,000	23,000		NA NA	NA	NA	NA	NA
Total Cyanide	120	1,600		0.25 U	0.60	0.25 U	0.25 U	0.25 U
total Cyanico	120	1,000	L	ead and Chromiur				L
SPLP Lead	0.1		3FLF L	0.034	NA NA	0.014	NA	NA
	1				NA NA	NA	NA	NA
SPLP Chromium	1.0			NA	NA	NA	NA	NA NA

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- (3) NA Not Analyzed
- (4) Shaded values exceeded Tier 1 screening level
- (5) -- Toxicity criteria not available for exposure route (Illinois EPA 2001).
- (6) ** No pH-dependent value was available so SPLP analyses from select samples was used to evaluate this pathway
- (7) *** No pH-dependent Class II value was available therefore the Class I value was used to evaluate this pathway.
- (8) * Calculated 95% upper confidence limit for arsenic at the site (9 007 mg/kg) is below the 13 mg/kg remediation objective
- (9) Tier 1 inhalation objective for naphthalene pertains to construction worker scenario, because it is more stringent than residential scenario

	T	Tier 1		Sample	Sample Location and Depth (feet below ground surface)/Concentration				
		Remediation	,		RPM-SB28-002				
		Objectives		0-1'	2-3'	6-8'	2-3'	5-7'	
Compound/Analyte	Soil to GW		Inhalation	WT ~ NE	WT - NE	WT ~ NE	WT~NE	WT - NE	
Compound? that ye	Journa Cit.	Ligoudon	<u> </u>	TCL VOCs (mg/k					
Benzene	0.17	22	0.8	0.007	0.002 U	0.002 U	0.002U	0.004	
Carbon Disulfide	160	7.800	720	NA NA	NA	NA	NA	NA	
Ethylbenzene	19	7,800	400	0.011	0.005 U	0.005 U	0.005U	0.005U	
Styrene	18	16,000	1,500	0.005 U	0.005 U	0.005 U	0.005U	0.005U	
Toluene	29	16,000	650	0.005	0.005 U	0.005 U	0.005U	0.005U	
Xylenes (total)	150	160,000	410	0.050	0.005 U	0.005 U	0.005U	0.005U	
Aylenes (total)	130	100,000		CL SVOCs (mg/l		0.005 0	0.0050	0.0030	
Acenaphthene	2,900	4,700	I	0.025 U	0.025 U	0.025 U	0.036	0.029J	
Acenaphulene	2,900	4,700		0.126	0.025 U	0.025 U	0.025U	0.267J	
Anthracene	59,000	23,000		0.072	0.025 U	0.025 U	0.112	0.08J	
Benzo[a]anthracene	8	0.9	·	0.178	0.025 U	0.025 U	0.186	0.221J	
Benzo[b]fluoranthene	25	0.9		0.178	0.025 U	0.025 U	0.151	0.113J	
Benzo[k]fluoranthene	250	9		0.112	0.025 U	0.025 U	0.130	0.136J	
Benzo[g,h,i]perylene	230			0.075	0.025 U	0.025 U	0.102	0.1J	
Benzo[a]pyrene	82	0.09		0.252	0.025 U	0.025 U	0.182		
Chrysene	800	88		0.245	0.025 U	0.025 U	0.172	0.265J	
Dibenzo[a,h]anthracene	7.6	0.09		0.028	0.025 U	0.025 U	0.055	0.065J	
Dibenzofuran	7.0			NA	NA	NA	NA	NA NA	
Fluoranthene	21,000	3,100		0.315	0.025 U	0.025 U	0.313	0.122J	
Fluorene	2,800	3,100		0.034	0.025 U	0.025 U	0.041	0.047J	
Hexachlorocyclopentadiene	2200	550	10	NA	NA	NA NA	NA	NA	
Indeno[1,2,3-cd]pyrene	69	0.9		0.077	0.025 U	0.025 U	0.102	0.102J	
2-Methylnaphthalene				NA	NA	NA	NA NA	NA	
Naphthalene	18	1,600	1.8	0.025 U	0.025 U	0.025 U	0.025U	0.076J	
N-nitrosodiphenylamine	5.6	130		0.025 C	0.025 C	NA	NA NA	NA NA	
Phenanthrene	3.0			0.148	0.025 U	0.025 U	0.278	0.089J	
Pyrene	21,000	2,300		0.148	0.025 U	0.025 U	0.281	0.229J	
i yiene	1 21,000		<u> </u>	nt Metals (mg/kg)	0.025	0.025 0	0.201	0.2270	
Antimony	20	31		NA NA	NA	NA	NA	NA	
Arsenic*	120	13	750	2.25	4.70	11.6	5.530	9,650	
Barium	1,800	5,500	690,000	38.2	72.4	52.9	37.500	61.900	
Beryllium	130,000	160	1,300	NA NA	NA NA	NA	NA	NA	
Cadmium	590	78	1,800	0.500 U	0.500 U	0.500 U	0.500U	0.500U	
Chromium***	28	390	270	8.73	29.1 NR	29.6 NR	11.500	21.200	
Copper	330,000	2,900		NA NA	NA	NA	NA	NA	
Lead**	220,000	400		446	19.5	30.8	38.9	64	
Mercury	32	23	10	0.040 U	0.040 U	0.040 U	0.261	0.137	
Nickel	14,000	1,600	13,000	NA NA	NA NA	NA	NA	NA	
Selenium	2.4	390		1.00 U	1.17	1.00 U	1.000U	1.000U	
Silver***	39	390		0.500 U	0.500 U	0.500 U	0.837	0.500U	
Thallium	34	6.3		NA	NA	NA	NA	NA	
Zinc	32,000	23,000		NA NA	NA	NA	NA	NA	
Total Cyanide	120	1,600		0.25 U	0.25 U	0.25 U	0.250U	0.250U	
	11	1,500	اـــــــــــا 1 D I D ا	ead and Chromium				· · · · · · · · · · · · · · · · · · ·	
SPLP Lead	0.1		SFLF L	0.09	NA NA	NA	NA	NA	
SPLP Chromium	1.0			NA NA	0.005 U	0.005	NA NA	NA NA	

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- (4) Shaded values exceeded Tier 1 screening level
- (5) Toxicity criteria not available for exposure route (Illinois EPA 2001)
- (6) ** No pH-dependent value was available so SPLP analyses from select samples was used to evaluate this pathway
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- (8) * Calculated 95% upper confidence limit for arsenic at the site (9 007 mg/kg) is below the 13 mg/kg remediation objective.
- (9) Tier 1 inhalation objective for naphthalene pertains to construction worker scenario, because it is more stringent than residential scenario

		Tier l		Sample	Location and Depth	(feet below ground	nd surface)/Conce	ntration
		Remediation	1	RPM-SB29A-001	RPM-SB29A-002	RPM-SB30-001	RPM-SB30-002	RPM-SB30-00
		Objectives		2-3'	9-11'	2-3'	3-5'	7-9'
Compound/Analyte	Soil to GW	Ingestion	Inhalation	WT ~ 10'	WT ~ 10'	WT ~ NE	WT ~ NE	WT ~ NE
				TCL VOCs (mg/k	g)			
Benzene	0.17	22	0.8	17.800	0.200	27.700	124.000	31.300
Carbon Disulfide	160	7,800	720	NA	NA	NA	NA	NA
Ethylbenzene	19	7,800	400	10.000	0.170	8.900	43.100	11.200
Styrene	18	16,000	1,500	0.600	0.084	0.084	0.100U	0.055
Toluene	29	16,000	650	2.670	0.397	0.136	0.144	0.820
Xylenes (total)	150	160,000	410	21.200	1.280	6.550	19.200	7.860
				TCL SVOCs (mg/k	(g)			
Acenaphthene	2,900	4,700		80.500	0.129J	0.530	2.110	3.820
Acenapthylene				51.800	0.218J	0.218	2.710	2.840
Anthracene	59,000	23,000		149.000	0.41J	0.385	2.180	3.850
Benzo[a]anthracene	8	0.9		94.800	0.305J	0.394	2.590	4.730
Benzo[b]fluoranthene	25	0.9		19.700	0.1J	0.174	0.857	1.920
Benzo[k]fluoranthene	250	9		19.500	0.076J	0.128	0.673	1.370
Benzo[g,h,i]perylene				12.000	0.044J	0.077	0.384	0.738
Benzo[a]pyrene	82	0.09		57.200	- 0.136J	0.238	2.070	2.910
Chrysene	800	. 88		99.500	0.32J	0.405	2.590	5.010
Dibenzo[a,h]anthracene	7.6	0.09		12,200	0.029J	0.051	0.356	0.574
Dibenzofuran				NA	NA	NA	NA	NA :
Fluoranthene	21,000	3,100		155.000	0.45J	0.472	1.230	5.910
Fluorene	2,800	3,100		386.000	1.29J	1.330	3.270	6.240
Hexachlorocyclopentadiene	2200	550	10	NA	NA	NA	NA	NA
Indeno[1,2,3-cd]pyrene	69	0.9		13.000	0.045J	0.083	0.399	0.799
2-Methylnaphthalene				NA	NA	NA	NĄ	NA
Naphthalene	18	1,600	1.8	208.000	0.607J	1.700	9.460	8.540
N-nitrosodiphenylamine	5.6	130		NA	NA	NA	NA	NA .
Phenanthrene				376.000	1.24J	1.930	7.570	12.900
Pyrene	21,000	2,300	,	203.000	0.613J	0.653	3.000	8.430
			Priori	ty Pollutant Metals	(mg/kg)	2		
Antimony	20	31		NA	NA	NA	NA	NA :
Arsenic*	120	13	750	4.180	5.300	4.180	18.000	4.630
Barium	1,800	5,500	690,000	95.700	58.800	91.600	70.900	45.500
Beryllium	130,000	160	1,300	NA	NA	NA	NA	NA
Cadmium	590	78	1,800	0.500U	0.500U	0.515	0.500U	0.500U
Chromium***	28	390	270	13.600	13.100	22.500	22.700	15.500
Copper	330,000	2,900		NA	NA	NA	NA	NA
.ead**		400		302.000	61.200	517.000	43.900	132.000
Mercury	32	-23	10	0.189	0.103	0.040U	0.040U	0.040U
Nickel	14,000	1,600	13,000	NA	NA	NA	NA	NA
elenium	2.4	390		1.000U	1.000U	1.000U	1.000U	1.000U
ilver***	39	390		0.500U	0.500U	0.500U	0.500U	0.500U
hallium	34	6.3		NA	NA	NA	NA	NA
Cinc	32,000	23,000		NA	NA	NA	NA	NA
otal Cyanide (amenable)	120	1,600		0.47U	0.25U	0.25U	0.25U	0.25U
			SPLP	Lead and Chromiun	n (mg/L)		·	
PLP Lead	0.1			NA	NA NA	NA	NA	NA
PLP Chromium	1.0			NA NA	NA	NA	NA	NA

- $(1) \quad U Indicates \ compound/analyte \ was \ analyzed \ for \ but \ not \ detected, \ the \ associated \ value \ is \ the \ sample \ reporting \ limit.$
- (2) J Indicates an estimated value.
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- (4) Shaded values exceeded Tier 1 screening level
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- (8) * Calculated 95% upper confidence limit for arsenic at the site (9.007 mg/kg) is below the 13 mg/kg remediation objective.
- (9) Tier I inhalation objective for naphthalene pertains to construction worker scenario, because it is more stringent than residential scenario

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		Tier 1			Location and Dep			
		Remediation		RPM-SB31-001	RPM-SB31-002	RPM-SB31-003	RPM-SB61-001	RPM-SB61-002
		Objectives		1-2'	2-3'	5-7'	0-1'	1-2'
Compound/Analyte	Soil to GW	Ingestion	Inhalation	WT~NE	WT~NE	WT ~ NE	WT ~ NE	WT~NE
1	<u> </u>	I I I I I I I I I I I I I I I I I I I	<u> </u>	TCL VOCs (mg/k	g)			
Benzene	0.17	22	0.8	0.007	0.002U	0.002U	0.003	0.017
Carbon Disulfide	160	7,800	720	NA	NA	NA	NA	NA
Ethylbenzene	19	7,800	400	0.005U	0.005U	0.005U	0.005 U	0.005 U
Styrene	18	16,000	1,500	0.005U	0.005U	0.005U	0.005 U	0.005 U
Toluene	29	16,000	650	0.005U	0.005U	0.005U	0.005 U	0.005
Xylenes	150	160,000	410	0.009	0.005U	0.005U	0.005 U	0.005 U
]	CL SVOCs (mg/	kg)			
Acenaphthene	2,900	4,700		0.025U	0.025U	0.025U	0.070	0.883
Acenaphthylene				0.025U	0.025U	0.025U	1.060	8.090
Anthracene	59,000	23,000		0.025U	0.025U	0.025U	0.351	2.360
Benzo(a)anthracene	8	0.9		0.025U	0.025U	0.025U	0.741	1.320
Benzo(b)fluoranthene	25	0.9		0.025U	0.025U	0.025U	0.316	0.809
Benzo(k)fluoranthene	250	9		0.025U	0.025U	0.025U	0.389	0.607
Benzo(g,h,I)perylene				0.025U	0.025U	0.025U	0.318	2.140
Benzo(a)pyrene	82	0.09		0.025U	0.025U	0.025U	0.449	1.190
Chrysene	800	88		0.025U	0.025U	0.025U	0.803	1.340
Dibenzo[a,h]anthracene	7.6	0.09		0.025U	0.025U	0.025U	0.170	0.792
Dibenzofuran				NA	NA	NA	NA	NA
Fluoranthene	21,000	3,100		0.025U	0.025U	0.025U	1.020	0.951
Fluorene	2.800	3,100		0.025U	0.025U	0.025U	0.221	1.950
Hexachlorocyclopentadiene	2200	550	10	NA	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	69	0.9		0.025U	0.025U	0.025U	0.331	1,590
2-Methylnaphthalene				NA	NA	NA	NA	NA
Naphthalene	18	1,600	1.8	0.025U	0.025U	0.025U	0.025 U	1.900
N-nitrosodiphenylamine	5.6	130		NA	NA	NA	NA	NA
Phenanthrene				0.025U	0.025U	0.025U	0.403	0.548
Pyrene	21,000	2,300		0.025U	0.025U	0.025U	0.981	2.740
7. 7. 7. 7. 7. 7. 7. 7. 7. 7. 7. 7. 7. 7			Priority	Pollutant Metals	(mg/kg)			
Antimony	20	31		NA	NA	NA	NA	NA
Arsenic*	120	13	750	3.590	33.900	9.520	5.560	3.070
Barium	1,800	5,500	690,000	62.400	52.800	37.900	73.3	50.8
Beryllium	130,000	160	1,300	NA	NA	NA	NA	NA
Cadmium	590	78	1,800	0.500U	0.500U	0.500U	0.500 U	0.500 U
Chromium***	28	390	270	20.700	27.200	14.100	16.6	14.0
Copper	330,000	2,900		NA	NA	NA	NA	NA
Lead**		400		19.400	18.500	15.500	228	203
Mercury	32	23	10	0.040U	0.040U	0.040U	0.118	0.048
Nickel	14,000	1,600	13,000	NA	NA	NA	NA	NA
Selenium	2.4	390		1.000U	1.000U	1.000U	1.000 U	1.000 U
Silver***	39	390		0.500U	0.500U	0.500U	0.500 U	0.500 U
Thallium	34	6.3		NA	NA	NA	NA	NA
Zinc	32,000	23,000		NA	NA	NA	NA	NA
Total Cyanide (amenable)	120	1,600		0.25U	0.25U	0.25U	0.25 U	0.25 U
			SPLPI	ead and Chromiur				· · · · · · · · · · · · · · · · · · ·
SPLP Lead	0.1			NA NA	NA NA	NA	NA	NA
SPLP Chromium	1.0			NA NA	NA NA	NA	NA	NA

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- (2) J Indicates an estimated value.
- (3) NA Not Analyzed
- (4) Shaded values exceeded Tier 1 screening level.
- (5) -- Toxicity criteria not available for exposure route (Illinois EPA 2001).
- (6) ** No pH-dependent value was available so SPLP analyses from select samples was used to evaluate this pathway
- (7) *** No pH-dependent Class II value was available therefore the Class I value was used to evaluate this pathway
- (8) * Calculated 95% upper confidence limit for arsenic at the site (9 007 mg/kg) is below the 13 mg/kg remediation objective.
- (9) Tier 1 inhalation objective for naphthalene pertains to construction worker scenario, because it is more stringent than residential scenario

		Tier 1				th (feet below gro		
		Remediation Objectives	l	RPM-SB61-003 2-3'	RPM-SB61-004 4-6'	RPM-SB70-001 6-8'	RPM-SB71-001 6-8'	RPM-SB72-001 6-8'
Compound/Analyte	Soil to GW	Ingestion	Inhalation	WT ~ NE	WT ~ NE	WT ~ 10'	WT ~ 16'	WT ~ 9'
THE PERSON NAMED IN COLUMN NAM			<u> </u>	TCL VOCs (mg/k	g)			
Benzene	0.17	22	0.8	26.000	115.000	0.002U	0.002U	0.002U
Carbon Disulfide	160	7,800	720	NA	NA	NA	NA	NA
Ethylbenzene	19	7,800	400	41.400	36.500	0.005U	0.005U	0.005U
Styrene	18	16,000	1,500	0.050 U	4.990	0.005U	0.005U	0.005U
Toluene	29	16,000	650	0.978	73.200	0.005U	0.005U	0.005U
Xylenes	150	160,000	410	64.100	72.200	0.005U	0.005U	0.005U
			7	CL SVOCs (mg/l	(g)			
Acenaphthene	2,900	4,700		0.735 J	5.150	0.025U	0.025U	0.025U
Acenaphthylene				0.769 J	6.700	0.025U	0.025U	0.041
Anthracene	59,000	23,000		0.649 J	7.910	0.025U	0.025U	0.025U
Benzo(a)anthracene	8	0.9	-	0.689 J	6.290	0.025U	0.025U	0.029
Benzo(b)fluoranthene	25	0.9		0.197 J	1.320	0.025U	0.025U	0.041
Benzo(k)fluoranthene	250	9		0.217 J	1.200	0.025U	0.025U	0.031
Benzo(g,h,I)perylene			-	0.144 J	0.587	0.025U	0.025U	0.030
Benzo(a)pyrene	82	0.09	-	0.339 J	1.780	0.025U	0.025U	0.035
Chrysene	800	88	1	0.745 J	6.610	0.025U	0.025U	0.056
Dibenzo[a,h]anthracene	7.6	0.09	-	0.093 J	0.478	0.025U	0.025U	0.025U
Dibenzofuran				NA	NA	NA	NA	NA NA
Fluoranthene	21,000	3,100	-	0.762 J	7.810	0.025U	0.025U	0.043
Fluorene	2,800	3,100		1.270 J	14.400	0.025U	0.025U	0.025U
Hexachlorocyclopentadiene	2200	550	10	NA	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	69	0.9		0.163 J	0.712	0.025U	0.025U	0.027
2-Methylnaphthalene				NA	NA	NA	NA	. NA
Naphthalene	18	1,600	1.8	1.380 J	15.600	0.025U	0.025U	0.025U
N-nitrosodiphenylamine	5.6	130		NA	NA	NA	. NA	NA
Phenanthrene				1.740 J	33.800	0.025U	0.025U	0.031
Pyrene	21,000	2,300		1.510 J	10.300	0.025U	0.025U	0.063
	,, .		Priority	y Pollutant Metals			,	
Antimony	20	31		NA	NA	NA	NA	NA
Arsenic*	120	13	750	4.130	5.140	6.03	3.12	2.24
Barium	1,800	5,500	690,000	63.100	48.000	27.60	34.40	51.10
Beryllium	130,000	160	1,300	NA	NA	NA	NA NA	NA 0 70071
Cadmium	590	78	1,800	0.500 U	0.500 U	0.500U	0.500U	0.500U
Chromium***	28	390	270	20.2	20.9	14.50	18.90	22.70
Copper	330,000	2,900		NA	NA NA	NA	NA	NA 12.70
Lead**		400		20.7	13.5	12.10	14.10	42.70
Mercury	32	23	10	0.040 U	0.040 U	0.040U	0.040U	0.040U
Nickel	14,000	1,600	13,000	NA NA	NA 1 200 IV	NA	NA 1 00 U	NA 1 0011
Selenium	2.4	390		1.000 U	1.000 U	1.00U	1.00U	1.00U
Silver***	39	390		0.500 U	0.500 U	0.500U	0.500U	0.500U
Thallium	34	6.3		NA NA	NA NA	NA NA	NA	NA NA
Zinc	32,000	23,000		NA NA	NA O O O O O	NA 0.0511	NA 0.35U	NA 0.25U
Total Cyanide (amenable)	120	1,600		0.25 U	0.25 U	0.25U	0.25U	0.230
				ead and Chromiun				
SPLP Lead	0.1			NA NA	NA NA	NA	NA NA	NA
SPLP Chromium	1.0			NA]	NA	NA	NA	NA

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- (4) Shaded values exceeded Tier 1 screening level.
- (5) -- Toxicity criteria not available for exposure route (Illinois EPA 2001).
- (6) ** No pH-dependent value was available so SPLP analyses from select samples was used to evaluate this pathway
- (7) *** No pH-dependent Class II value was available therefore the Class I value was used to evaluate this pathway.
- (8) * Calculated 95% upper confidence limit for arsenic at the site (9.007 mg/kg) is below the 13 mg/kg remediation objective.
- (9) Tier 1 inhalation objective for naphthalene pertains to construction worker scenario, because it is more stringent than residential scenario

		Tier 1		Sample Location and Depth (feet below ground surface)/Concentration				
		Remediation	ı	RPM-SB73-001	RPM-SB74-001	RPM-SB75-001	B-12	B-13
		Objectives		3-5'	6-8'	7-8'	8-10'	3.5-4.5'
Compound/Analyte	Soil to GW	Ingestion	Inhalation	WT ~ 12'	WT ~ 5'	WT ~ 7.5'	WT ~ 8'	WT ~ NE
				TCL VOCs (mg/k	g)			
Benzene	0.17	22	0.8	0.002U	0.002U	0.002U	0.156	0.01
Carbon Disulfide	160	7,800	720	NA	NA	NA	0.033	0.005 U
Ethylbenzene	19	7,800	400	0.005U	0.005U	0.005U	0.006	0.157
Styrene	18	16,000	1,500	0.005U	0.005U	0.005U	0.005 U	0.007
Toluene	29	16,000	650	0.005U	0.005U	0.005U	0.005 U	0.005
Xylenes	150	160,000	410	0.031	0.005U	0.005U	0.062	0.143
				CL SVOCs (mg/l				
Acenaphthene	2,900	4,700		0.025U	0.025U	0,025U	0.33 UJ	10.6 J
Acenaphthylene				0.025U	0.040	0.025U	0.33 U	0.33 U
Anthracene	59,000	23,000		0.025U	0.026	0.025U	0.33 U	13.9
Benzo(a)anthracene	8	0.9		0.025U	0.056	0.025U	0.33 U	7.08
Benzo(b)fluoranthene	25	0.9		0.025U	0.025U	0.025U	0.33 U	1.22
Benzo(k)fluoranthene	250	9		0.025U	0.025U	0.025U	0.33 U	1.09
Benzo(g,h,I)perylene				0.025U	0.027	0.025U	0.33 U	2.87
Benzo(a)pyrene	82	0.09		0.025U	0.043	0.025U	0.33 U	1.81
Chrysene	800	88		0.026	0.061	0.025U	0.33 U	0.33 U
Dibenzo[a,h]anthracene	7.6	0.09		0.025U	0.025U	0.025U	0.33 U	0.33 U
Dibenzofuran				NA	NA	NA	0.33 U	0.33 U
Fluoranthene	21,000	3,100		0.041	0.044	0.025U	0.33 U	0.33 U
Fluorene	2,800	3,100		0.025U	0.037	0.025U	0.33 U	0.33 U
Hexachlorocyclopentadiene	2200	550	10	NA	NA	NA NA	0.33 U	0.33 U
Indeno(1,2,3-cd)pyrene	69	0.9		0.025U	0.025U	0.025U	0.33 U	0.33 Ú
2-Methylnaphthalene				NA	NA	NA NA	0.33 U	0.33 U
Naphthalene	18	1,600	1.8	0.025U	0.025U	0.025U	0.33 U	0.33 U
N-nitrosodiphenylamine	5.6	130		NA 0.005Vi	NA 0.055	NA 0.025W	0.33 U	0.33 UJ
Phenanthrene				0.025U	0.055	0.025U	0.33 U	0.33 U 0.33 U
Pyrene	21,000	2,300		0.037	0.068	0.025U	0.33 U	0.33 U
A - +:	20	31	ority Poliutar	nt Metals (mg/kg) NA	NA	NA I	2.3 U	1.9 U
Antimony Arsenic*	120	13	750	7.93	5,95	7.13	3	2.5
Barium	1,800	5,500	690,000	66.80	55.30	54.70	44.9	39.5
Beryllium	130,000	160	1,300	NA	NA NA	NA NA	0.46 U	0.47
Cadmium	590	78	1,800	0.500U	0.500U	0.500U	0.23 U	0.2
Chromium***	28	390	270	20.40	19.40	21.50	13.8	12.9
Copper	330,000	2,900		NA	NA NA	NA	17.1	16.7
Lead**	330,000	400		65.90	29.00	13.80	10.5	250
Mercury	32	23	10	0.040U	0.040U	0.040U	0.07	0.04 U
Nickel	14,000	1,600	13,000	NA	NA NA	NA NA	16.5	16.7
Selenium	2,4	390		1.00U	1.00U	1.00U	0.58 U	0.47
Silver***	39	390		0.500U	0.500U	0.500U	0.58 U	0.47 U
Thallium	34	6.3		NA	NA	NA	1.2 U	0.93 U
Zinc	32,000	23,000		NA	NA	NA	43.1	3880
Total Cyanide (amenable)	120	1,600		0.25U	0.25U	0.25U	NA	NA
-,	<u></u> L	-,	SPI.P I	ead and Chromiun				
SPLP Lead	0.1	I	I	NA NA	NA I	NA	0.0075 U	0.025
SPLP Chromium	1.0			NA	NA NA	NA NA	0.05 U	0.05 U

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	1	Tier 1		Sample I	ocation and Dentl	n (feet below gro	und surface)/Conc	entration
		Remediation	1	B-13	B-14	B-14 Dup	B-15	B-16
		Objectives		13-14'	6-8'	6-8'	7-8'	8-10'
Compound/Analyte	Soil to GW		Inhalation	WT~NE	WT~NE	WT ~ NE	WT ~ NE	WT~NE
Compounds that ye	pour to o ii	2.1800.1011		TCL VOCs (mg/kg		- Company		· · · · · · · · · · · · · · · · · · ·
Benzene	0.17	22	0.8	0.005 U	0.005 U	NA	2.55 3	0.200 U
Carbon Disulfide	160	7,800	720	0.005 U	0.005 U	NA	0.028 J	0.25 U
Ethylbenzene	19	7,800	400	0.005 U	0.005 U	NA	0.006 J	0.15 U
Styrene	18	16,000	1,500	0.005 U	0.005 U	NA	1.78 J	0.15 U
Toluene	29	16,000	650	0.005 U	0.005 UJ	NA	0.005 UJ	0.2 U
Xylenes	150	160,000	410	0.005	0.005 U	NA	12.1 J	0.45 U
rtylenes	1 150	100,000		CL SVOCs (mg/k				
Acenaphthene	2,900	4,700	I	0.33 UJ	0.33 UJ	0.33 UJ	1.42 J	0.33 U
Acenaphthylene				0.33 U	0.33 U	0.33 U	7.96	1.75
Anthracene	59,000	23,000		0.33 U	0.33 U	0.33 U	6.98	5.84
Benzo(a)anthracene	8	0.9		0.33 U	0.33 U	0.33 U	4.13	2.7
Benzo(b)fluoranthene	25	0.9		0.33 U	0.33 U	0.33 U	0.723	0.361
Benzo(k)fluoranthene	250	9		0.33 U	0.33 U	0.33 U	0.546	0.362
Benzo(g,h,I)perylene				0.33 U	0.33 U	0.33 U	0.496	0.33 U
Benzo(a)pyrene	82	0.09		0.33 U	0.33 U	0.33 U	0.924	0.437
Chrysene	800	88		0.33 U	0.33 U	0.33 U	4.45	2.96
Dibenzo[a,h]anthracene	7.6	0.09		0.33 U	0.33 U	0.33 U	0.33 U	0.33 U
Dibenzofuran				0.33 U	0.33 U	0.33 U	0.617	0.33 U
Fluoranthene	21,000	3,100		0.33 U	0.33 U	0.33 U	6.62	4.64
Fluorene	2,800	3,100		0.33 U	0.33 U	0.33 U	7.51	5.80
Hexachlorocyclopentadiene	2200	550	10	0.33 U	0.33 UJ	0.33 UJ	0.33 U	0.33 J
Indeno(1,2,3-cd)pyrene	69	0.9		0.33 U	0.33 U	0.33 U	0.33 U	0.33 U
2-Methylnaphthalene			-	0.33 U	0.33 U	0.33 U	13.70	0.424 J
Naphthalene	18	1,600	1.8	0.33 U	0.33 U	0.33 U	17.20	0.577
N-nitrosodiphenylamine	5.6	130		0.33 U	0.33 U	0.33 U	0.33 U	0.33 U
Phenanthrene				0.33 U	0.33 U	0.33 U.	20.30	17.70
Pyrene	21,000	2,300		0.33 U	0.33 U	0.33 U	9.31	6.58 J
			Priorit	Pollutant Metals	(mg/kg)			
Antimony	20	31		2.1 U	2.2 U	2 U	1.9 U	2.1 U
Arsenic*	120	13	750	9.3	8.8	3.7	8.2	6.4
Barium	1,800	5,500	690,000	35.9	58.2	43.9	34.9	50.4
Beryllium	130,000	160	1,300	0.59	0.72	0.69	0.53	0.67
Cadmium	590	78	1,800	0.21 U	0.51	0.44	0.19 U	0.21 U
Chromium***	28	390	270	17.2	20.6	21.7	16.1	20.7
Copper	330,000	2,900		35.8	26.4	29	25.9	29
Lead**		400		16.3	12.4	19.4	12.9	13.7
Mercury	32	23	10	0.04 U	0.04 U	0.04 U	0.07	0.04 U
Nickel	14,000	1,600	13,000	36.1	31.7	29.3	26.3	32.2
Selenium	2.4	390		0.55	0.91	0.51	0.49 U	0.53 U
Silver***	39	390		0.52 U	0.55 U	0.5 U	0.49 U	0.53 U
Thallium	34	6.3		1 U	1.1 U	1.2	0.97 U	1.1 U
Zinc	32,000	23,000		45.3	44	46.5	42.4	63.2
Total Cyanide (amenable)	120	1,600		NA	NA	NA	NA	NA
			SPLP I.	ead and Chromium	ı (mg/L)			
SPLP Lead	0.1			0.0075 U	0.0075 U	0.0075 U	0.0075 U	0.0075 U
SPLP Chromium	1.0			0.05 U	0.05 U	0.05 U	0.05 U	0.05 U

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- (4) Shaded values exceeded Tier 1 screening level.
- (5) -- Toxicity criteria not available for exposure route (Illinois EPA 2001).
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- (8) * Calculated 95% upper confidence limit for arsenic at the site (9 007 mg/kg) is below the 13 mg/kg remediation objective.
- (9) Tier 1 inhalation objective for naphthalene pertains to construction worker scenario, because it is more stringent than residential scenario

	1	Tier 1		Sample Location and Depth (feet below ground surface)/Concentration				
	! ·			B-16	B-16 Dup	B-18	B-18	SS-12
	1.	Remediation Objectives	ı	10-12'	В-16 Dup. 10-12'	6-8'	12-14'	0-2'
	0.11		W T 1 1 1					WT~NE
Compound/Analyte	Soil to GW	Ingestion		WT~NE	WT ~ NE	WT ~ NE	WT~NE	WI~NE
	H			TCL VOCs (mg/k			I	2005 117
Benzene	0.17	22	0.8	0.005 UJ	0.005 U	72.1	0.46	0.005 UJ
Carbon Disulfide	160	7,800	720	0.005 UJ	0.005 U	0.25 U	0.005 U	0.005 UJ
Ethylbenzene	19	7,800	400	0.005 UJ	0.005 U	59.4	0.01	0.005 UJ
Styrene	18	16,000	1,500	0.005 UJ	0.005 U	0.15 U	0.005	0.005 UJ
Toluene	29	16,000	650	0.005 UJ	0.005 UJ	69.7	0.052 J	0.005 UJ
Xylenes	150	160,000	410	0.005 UJ	0.005 U	115	0.03 J	0.005 UJ
				CL SVOCs (mg/k	· 	r		
Acenaphthene	2,900	4,700		0.33 UJ	NA	12.9 J	0.33 UJ	0.33 UJ
Acenaphthylene				0.33 U	NA	13.5	0.33 U	0.33 U
Anthracene	59,000	23,000		0.33 U	NA	21.1	0.33 U	0.33 U
Benzo(a)anthracene	8	0.9		0.33 U	NA	13.7	0.33 U	0.33 U
Benzo(b)fluoranthene	25	0.9		0.33 U	NA	1.19	0.33 U	0.33 U
Benzo(k)fluoranthene	250	9		0.33 U	NA	1.00	0.33 U	0.33 U
Benzo(g,h,I)perylene				0.33 U	NA	3.09	0.33 U	0.33 U
Benzo(a)pyrene	82	0.09		0.33 U	NA	1.64	0.33 U	0.33 U
Chrysene	800	88		0.33 U	NA	17.3	0.33 UJ	0.33 U
Dibenzo[a,h]anthracene	7.6	0.09		0.33 U	NA	1.80	0.33 UJ	0.33 U
Dibenzofuran				0.33 U	NA	0.33 U	0.33 UJ	0.33 U
Fluoranthene	21,000	3,100		0.33 U	NA	23.4	0.33 UJ	0.33 U
Fluorene	2,800	3,100		0.33 U	NA	35.0	0.33 UJ	0.33 U
Hexachlorocyclopentadiene	2200	550	10	0.33 UJ	NA	0.33 UJ	0.33 UJ	0.33 UJ
Indeno(1,2,3-cd)pyrene	69	0.9		. 0.33 U	NA	2.25	0.33 UJ	0.33 U
2-Methylnaphthalene				0.33 UJ	NA	105	0.33 UJ	0.33 U
Naphthalene	18	1,600	1.8	0.33 U	NA	107	0.33 UJ	0.33 U
N-nitrosodiphenylamine	5.6	130		0.33	NA	0.33 U	0.33 UJ	0.33 U
Phenanthrene				0.33 U	NA	90.1	0.33 UJ	0.33 U
Pyrene	21,000	2,300		0.33 U	NA	33.0	0.33 UJ	0.33 U
			Priorit	Pollutant Metals				
Antimony	20	31		2.1 U	NA	2.1 U	1.9 U	1.7
Arsenic*	120	13	750	8.3	NA	4.2	6.9	7.3
Barium	1,800	5,500	690,000	48.8	NA	51.6	48.8	66.3
Beryllium	130,000	160	1,300	0.61	NA	0.72	0.64	0.89
Cadmium	590	78	1,800	0.21 U	NA	0.43	0.44	0.4
Chromium***	28	390	270	19.1	NA	21.5	19.2	23.8
Copper	330,000	2,900		27.2	NA	26.1	27.3	25
Lead**		400		12.7	NA	11.8	11.6	39.2
Mercury	32	23	10	0.04 U	NA	0.04 U	0.1	0.04 U
Nickel	14,000	1,600	13,000	28.6	NANA	29.7	30.4	30.8
Selenium	2.4	390		0.52 U	NA	0.51 U	0.5 U	0.7
Silver***	39	390		0.52 U	NA	0.51 U	0.48 U	0.48
Thallium	34	6.3		1 U	NA	1.3	0.96	0.86
Zinc	32,000	23,000		39.6	NA	44.5	41.5	60.7
Total Cyanide (amenable)	120	1,600		NA	NA	NA	NA	NA
			SPLP L	ead and Chromiun	n (mg/L)			
SPLP Lead	0.1			0.0075 U	NA	0.0075 U	0.0075 U	0.013
SPLP Chromium	1.0			0.05 U	NA	0.05 U	0.005 U	0.05 U

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- (3) NA Not Analyzed
- (4) Shaded values exceeded Tier 1 screening level
- (5) -- Toxicity criteria not available for exposure route (Illinois EPA 2001).
- (6) ** No pH-dependent value was available so SPLP analyses from select samples was used to evaluate this pathway.
- (7) *** No pH-dependent Class II value was available therefore the Class I value was used to evaluate this pathway
- (8) * Calculated 95% upper confidence limit for arsenic at the site (9 007 mg/kg) is below the 13 mg/kg remediation objective
- (9) Tier 1 inhalation objective for naphthalene pertains to construction worker scenario, because it is more stringent than residential scenario

Tier 1			Sample Location and Depth (feet below ground surface)/Concentration					
	Remediation		SS-12 Dup.					
1	Objectives		0-2'				}	
Soil to GW		Inhalation	WT~NE					
<u> </u>	<u> </u>		ICL VOCs (mg/k	g)		akonomic		
0.17	22	0.8		ľ		T	T	
·						<u> </u>		
19		400						
<u>, </u>		1.500						
						1	 	
	,			(g)				
2.900	4,700		0.33 U	l I			1	
							1	
59,000	23,000							
8	0.9		0.33 U			T	1	
	0.9		0.33 U			†		
	9						<u> </u>	
			0.33 U		·			
1	0.09							
					,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	 		
11				-				
<u> </u>								
							1	
		10						
1							†	
		1.8				<u> </u>	ļ	
21,000	2,300							
H		Priority		(mg/kg)				
20	31	1	1.8 U					
120	13	750	7.9					
1,800	5,500	690,000	57.8			1		
	160	1,300	0.8					
590	78	1,800	0.39					
28	390	270	22.2					
330,000	2,900		23.7					
	400		24.3					
32	23	10	0.1		,			
14,000	1,600	13,000	31.8					
2.4	390		0.52					
39	390		0.45 U					
34	6.3		0.91 U					
32,000	23,000		49.6					
120	1,600		NA					
L		SPLP 1.	ead and Chromium	n (mg/L)				
0.1							1	
1.0			0.05 U			†		
	0.17 160 19 18 29 150 2,900 	Remediation Objectives Soil to GW Ingestion	Remediation Objectives	Remediation Objectives	Remediation	Remediation	Remediation Objectives	

- (1) U Indicates compound/analyte was analyzed for but not detected, the associated value is the sample reporting limit.
- (2) J Indicates an estimated value.
- (3) NA Not Analyzed
- (4) Shaded values exceeded Tier I screening level.
- (5) -- Toxicity criteria not available for exposure route (Illinois EPA 2001).
- (6) ** No pH-dependent value was available so SPLP analyses from select samples was used to evaluate this pathway.
- (7) *** No pH-dependent Class II value was available therefore the Class I value was used to evaluate this pathway.
- (8) * Calculated 95% upper confidence limit for arsenic at the site (9.007 mg/kg) is below the 13 mg/kg remediation objective
- (9) Tier 1 inhalation objective for naphthalene pertains to construction worker scenario, because it is more stringent than residential scenario

Table 2 Final Remediation Objectives - Soil Rogers Park Pond Parcel

		Tier 1		
	ľ	Remediation	l	Final
		Objectives		Remediation
Compound/Analyte	Soil to GW	Ingestion	Inhalation	Objective
	TCL VOCs	(mg/kg)		
Benzene	0.17	22	0.8	0.17
Ethylbenzene	19	7,800	400	19
Toluene	29	16,000	650	29
	TCL SVOCs	(mg/kg)		
Benzo[a]anthracene	8	0.9		0.9
Benzo[b]fluoranthene	25	0.9		0.9
Benzo[k]fluoranthene	250	9		9
Benzo[a]pyrene	82	0.09		0.09
Chrysene	800	88		88
Dibenzo[a,h]anthracene	7.6	0.09		0.09
Indeno[1,2,3-cd]pyrene	69	0.9		0.9
Naphthalene	18	1,600	1.8*	1.8
Prior	ity Pollutant N	Metals (mg/k	g)	
Chromium***	28	390	270	28
Lead**		400		400
SPLP	Lead and Chi	romium (mg/	L)	
SPLP Lead	0.1			0.1
SPLP Chromium	1.0			1.0

- (1) ** No pH-dependent value was available so SPLP analyses from select samples was used to evaluate this pathway.
- (2) *** No pH-dependent Class II value was available therefore the Class I value was used to evaluate this pathway.
- (3) * Tier 1 inhalation objective for naphthalene pertians to construction worker scenario because it is more stringent than the residential scenario

Table 3
Meterological Data During Excavation
Rogers Park Pond Parcel

		Outside	Wind	High Wind	Wind	Barometer
Dava	Time	Temperature (°F)		Speed (mph)		Pressure (in-Hg)
Date		remperature (F)		12	NW	30.029
7/19/01	3:00p		3			
7/19/01	3:30p		4	12	NW	30.019 30.013
7/19/01	4:00p		4	10	NW	
7/20/01	7:00a		0	0	NNW	30.048 29.954
7/20/01	12:00p		3	8		
7/20/01	4:00p		4	11	NW .	29.906 29.832
7/23/01	7:00a		3	<u>8</u> 9	ENE	29.836
7/23/01	12:00p		4		E	29.845
7/23/01	4:00p		2	9	NW	29.864
7/24/01	7:00a		0	2	NE	29.877
7/24/01	12:00p		3	9	NW	
7/24/01	4:00p		3	10	NW W	29.836 29.849
7/25/01	7:00a		4	9	W	29.882
7/25/01	12:00p		6	14		
7/25/01	4:00p		8	20	WNW	29.889 30.031
7/26/01	7:00a		2	7	WNW	30.031
7/26/01	12:00p		5	13	WNW	30.113
7/26/01	4:00p		7	16		30.12
7/27/01	7:00a		3	9.	N	
7/27/01	12:00p		3	9	NNW	30.191 30.129
7/27/01	4:00p		41	11	NW W	29.975
7/30/01	7:00a		1	9		29.973
7/30/01	12:00p	81.1	3	9	N N	29.983
7/30/01	4:00p		4	6	ENE	30.069
7/31/01	7:00a		2	12	ENE	30.068
7/31/01	12:00p		<u>3</u>	15	N	30.037
7/31/01	4:00p		4	13	ENE	30.112
8/01/01	7:00a		6	15	NNE	30.125
8/01/01	12:00p		5	11	NE	30.088
8/01/01 8/02/01	4:00p 7:00a		2	10	NW	30.116
I			1	7	ESE	30.101
8/02/01 8/02/01	12:00p 4:00p		1	5	W	30.067
8/02/01	7:00a		2	5	NE NE	30.013
	12:00p		3	10	SW	30.032
8/03/01 8/03/01	4:00p	-	5	9	SW	29.983
8/03/01	7:00a		0	4	N	30.113
8/06/01	12:00p		4	14	NE	30.113
8/06/01	4:00p		4	13	NE NE	30.041
8/07/01	7:00a		2	7	ENE	30.069
8/07/01	7:00a 12:00p		6	13	SE	30.048
8/07/01	4:00p		2	7	W	29.99
8/08/01	7:00a		2	6	ENE	29.991
8/08/01	12:00p		5	11	NE	29.965
<u> </u>			6	14	NNE	29.891
8/08/01	4:00p		2	5	N	29.853
8/09/01	7:00a	02.0	5	14	NE NE	29.833
8/09/01	12:00p	93.9	7	19	NNE	29.712
8/09/01	4:00p		7	16	SSW	29.92
8/10/01	7:00a		7	17	S	29.994
8/10/01 Notes:	12:00p			1/		62.77T

Notes:

⁽¹⁾ The wind direction given until September 4, 2001, is the direction the wind is blowing to and not from, however, after this time, the wind direction given is the direction the wind is blowing from.

⁽²⁾ mph - miles per hour

^{(3) °}F - degrees Fahrenheit

⁽⁴⁾ in-Hg - inches of mercury

Table 3 (Continued) Meterological Data During Excavation Rogers Park Pond Parcel

		Outside	Wind	High Wind	Wind	Barometer
ъ.	TT:	Temperature (°F)	•	-		Pressure (in-Hg)
Date	Time	Temperature (F)				30.006
8/10/01	4:00p		7	16	SSW	30.000
8/13/01	7:00a	70.9	6	13	SSW	
8/13/01	12:00p	73	9	19	SW	30.138
8/13/01	4:00p		8	21	SSW	30.119
8/14/01	7:00a		3	6	SE	30.117
8/14/01	12:00p		5	14	SW	30.088
8/14/01	4:00p		3	8	SW	30.043
8/15/01	7:00a		0	2	NNE	29.954
8/15/01	12:00p		4	11	NNE	29.895
8/15/01	4:00p		4	8	SE	29.891
8/16/01	7:00a		6	13	N	29.634
8/16/01	12:00p		8	15	SE	29.694
8/16/01	4:00p		6	14	Е	29.784
8/17/01	7:00a		2	8	ESE	29.956
8/17/01	12:00p		7	16	ESE	29.983
8/17/01	4:00p		5	10	NNE	29.951
8/20/01	7:00a		3	6	SE	29.985
8/20/01	12:00p		7	15	SSW	30.019
8/20/01	4:00p		. 4	11	SW	29.998
8/21/01	7:00a		0	2	NNW	30.043
8/21/01	12:00p		7	17	N	30.013
8/21/01	4:00p		9	20	N	29.912
8/22/01	7:00a		4	9	N	29.869
8/22/01	12:00p		10	21	N	29.864
8/22/01	4:00p		5	12	SSW	29.857
8/23/01	7:00a		1	3	ENE	29.931
8/23/01	12:00p		6	11	SW	29.994
8/23/01	4:00p		4	10	SW	30.013
8/24/01	7:00a		0	2	SSW	30.06
8/24/01	12:00p		2	6	W	30.034
8/24/01	4:00p		4	13	SW	29.989
8/27/01	7:00a		. 0	3	SE	29.943
8/27/01	12:00p		6	13	NNE	29.84
8/27/01	4:00p		6	16	NNE	29.776
8/28/01	7:00a		3	10	ESE	29.881
8/28/01	12:00p		5	11	SW	29.96
8/28/01	4:00p		4	11	SW	29.958
8/29/01	7:00a		0	0		30.012
8/29/01	12:00p	-	2	. 8	NW	29.989
8/29/01	4:00p		3	7	W	29.965
8/30/01	7:00a		4	9	N	29.803
8/30/01	12:00p		6	18	NNE	29.768
8/30/01	4:00p		5	13	ENE	29.729
8/31/01	7:00a		2	5	NE	29.776
8/31/01	12:00p		6	13	S	29.851
8/31/01	4:00p		0	0		29.96
9/04/01	7:00a		0	0		30.063
9/04/01	12:00p		6	15	N	30.147
9/04/01	4:00p		8	17	N	30.143
9/05/01	7:00a		2	5	ESE	30.218
9/05/01	12:00p		4	9	ESE	30.23
9/05/01	4:00p		4	10	NE	30.169

Notes:

⁽¹⁾ The wind direction given until September 4, 2001, is the direction the wind is blowing to and not from, however, after this time, the wind direction given is the direction the wind is blowing from.

⁽²⁾ mph - miles per hour

^{(3) °}F - degrees Fahrenheit

⁽⁴⁾ in-Hg - inches of mercury

Table 3 (Continued) Meterological Data During Excavation Rogers Park Pond Parcel

		Outside	Wind	High Wind	Wind	Barometer
Date	Time	Temperature (°F)				Pressure (in-Hg)
9/06/01	7:00a		3	8	SE	30.127
9/06/01	10:00a	79.5	6	12	SE .	30.095
9/07/01	8:00a		4	11	SSE	29.806
9/07/01	12:00p		8	17	SSE	29.771
9/07/01	4:00p		10	26	SE	29.7
9/10/01	7:00a		2	5	SW	30.141
9/10/01	12:00p		7	20	S	30.14
9/10/01	4:00p		6	15	WSW	30.146
9/11/01	7:00a		0	0		30.312
9/11/01	12:00p		4	10	Е	30.29
9/11/01	4:00p		3	10	E	30.221
9/12/01	7:00a		2	6	SE	30.169
9/12/01	12:00p		5	11	S	30.121
9/12/01	4:00p		5	11	SW	30.059
9/13/01	7:00a		5	16	NNE	30.206
9/13/01	12:00p		8	21	N	30.264
9/13/01	4:00p		7	17	N	30.278
9/14/01	7:00a		4	13	ENE	30.412
9/14/01	12:00p		6	15	ENE	30.413
9/14/01	4:00p		5	13	NE	30.346
9/17/01	7:00a		1	3	SSE	30.066
9/17/01	12:00p		3	6	SW	30.07
9/17/01	4:00p		3	8	N	30.024
9/18/01	7:00a		0	3	NNE	30.015
9/18/01	12:00p		4	12	ENE	30.002
9/18/01	4:00p		4	10	N	29.951
9/19/01	7:00a		5	13	SSE	29.557
9/19/01	12:00p		4	9	SSW	29.566
9/19/01	4:00p		8	18	WNW	29.661
9/20/01	7:00a		2	4	SW	29.932
9/20/01	12:00p		7	20	WNW	29.952
9/20/01	4:00p		3	9	SW	29.908
9/21/01	7:00a		2	5	WSW	29.827
9/21/01	12:00p		6	14	NW	29.883
9/21/01	4:00p		4	9	N .	29.928
9/24/01	7:00a	47.8	8	19	NNW.	30.142
9/24/01	12:00p		11	28	NNW	30.196
9/24/01	4:00p		11	26	NNW	30.196
9/25/01	7:00a		7	14	NW	30.167
9/25/01	12:00p		9	21	NW	30.143
9/25/01	4:00p		5	12	N	30.078
9/26/01	7:00a		5	14	WNW	29.993
9/26/01	12:00p		6	16	WNW	29.964
9/26/01	4:00p		10	20	WNW	29.93

Notes

(1) The wind direction given until September 4, 2001, is the direction the wind is blowing to and not from,

however, after this time, the wind direction given is the direction the wind is blowing from.

(2) mph - miles per hour

(3) °F - degrees Fahrenheit (4) in-Hg - inches of mercury

Table 4
Pre-Excavation Air Sampling Analytical Results
Rogers Park Pond Parcel

				Concentration (ppbv)	
Date Sampled	Sample ID	Benzene	Toluene	Ethyl Benzene	m,p-Xylene	o-Xylene
07/20/2001	RPM-E-SUM-07-20-01	1.2 U	2.7	1.2 U	1.3	1.2 U
	RPM-S-SUM-07-20-01	1.2 U	9.1	1.2 U	1.8	1.2 U
	RPM-W-SUM-07-20-01	1.2 U	5.2	1.2 U	2.3	1.2 U
07/23/2001	RPM-E-SUM-07-23-01	1.1 U	1.5	1.1 U	1.1	1.1 U
	RPM-S-SUM-07-23-01	1.5	3.8	1.2	4.1	1.9
	RPM-N-SUM-07-23-01	0.88 U	1.5	0.88 U	1.4	0.88 U
	RPM-W-SUM-07-23-01	2.6	4.5	1 U	2.3	1.3
07/24/2001	RPM-N-SUM-07-24-01	0.94 U	1.1	0.94 U	0.94 U	0.94 U
*	RPM-S-SUM-07-24-01	0.94 U	1	0.94 U	1	0.94 U
	RPM-W-SUM-07-24-01	0.94 U	1.3	0.94 U	1	0.94 U
	RPM-E-SUM-07-24-01	0.98 U	1.7	0.98 U	1.5	0.98 U

⁽¹⁾ U - Indicates compund/analyte was analyzed for but not detected, the associated value is the sample reporting limit

⁽²⁾ ppbv - parts per billion by volume

Table 5 **Excavation Air Sampling Analytical Results** Rogers Park Pond Parcel

			·			Concentra	ation (ppbv)				
		Be	nzene	То	luene	,	benzene	m,p-	Xylene	o-X	ylene
		Action	Analytical	Action	Analytical	Action	Analytical	Action	Analytical	Action	Analytical
Date Sampled	Sample ID	Level	Result	Level	Result	Level	Result	Level	Result	Level	Result
07/25/2001	RPM-W-SUM-07-25-01	39	0.92 U	2,211	0.92 U	4,883	0.92 U		0.92 U	_ - _	0.92 U
07/26/2001	RPM-N-SUM-07-26-01	39	0.92 U	2,211	0.92 U	4,883	0.92 U		0.92 U		0.92 U
4,, ===================================	RPM-W-SUM-07-26-01	39	0.92 U	2,211	0.92 U	4,883	0.92 U		0.92 U		0.92 U
07/27/2001	RPM-N-SUM-07-27-01	39	0.98 U	2,211	0.98 U	4,883	0.98 U		0.98 U		0.98 U
	RPM-S-SUM-07-27-01	39	0.98 U	2,211	0.98 U	4,883	0.98 U		0.98 U		0.98 U
	RPM-E-SUM-07-27-01	39	9.6	2,211	1.7	4,883	2.1		2.9		1.4
	RPM-W-SUM-07-27-01	39	1 U	2,211	1 U	4,883	1 U		1 U		1 U
07/30/2001	RPM-S-SUM-07-30-01	39	1.1	2,211	0.98 U	4,883	0.98 U		0.98 U		0.98 U
	RPM-E-SUM-07-30-01	39	1.3	2,211	1 U	4,883	1 U		1 U		1 U
07/31/2001	RPM-N-SUM-07-31-01	39	2.2	2,211	1.2	4,883	0.98 U		0.98 U		0.98 U
	RPM-E-SUM-07-31-01	39	3.6	2,211	1.2	4,883	1 U		1.3		1 U
	RPM-E-ERI-SUM	39	3.88 J	2,211	0.85 J	4,883	2.44 J		1.97 J		0.87 J
08/01/2001	RPM-N-SUM-08-01-01	39	0.96 U	2,211	0.96	4,883	0.96 U		0.96 U		0.96 U
00.01.200	RPM-S-SUM-08-01-01	39	1.2	2,211	1	4,883	0.94 U		1		0.94 U
	RPM-E-SUM-08-01-01	39	2.7	2,211	1.1	4,883	0.96 U		0.99		0.96 U
	RPM-W-SUM-08-01-01	39	0.96 U	2,211	1.6	4,883	0.96 U		1		0.96 U
	RPM-N-ERI-SUM	39	3.82	2,211	2.14	4,883	0.72		1.4		0.58
08/02/2001	RPM-N-SUM-08-02-01	39	3.3	2,211	3.2	4,883	1 U	-	2.5		1
00/02/2001	RPM-S-SUM-08-02-01	39	7.9	2,211	18	4,883	3.8		21		5.9
	RPM-E-SUM-08-02-01	39	15	2,211	6.6	4,883	3.9		5.7		2.4
	RPM-W-SUM-08-02-01	39	10	2,211	8.2	4,883	2.6		11		3
08/03/2001	RPM-S-SUM-08-03-01	39	2.1	2,211	1.2	4,883	1 U		1.3		1 U
Q0,00, 2 001	RPM-W-SUM-08-03-01	39	1.6	2,211	1.9	4,883	1 U		1.2		1 U
08/06/2001	RPM-N-SUM-08-06-01	39	8.5	2,211	4.8	4,883	1.5		3.2		1.4
	RPM-S-SUM-08-06-01	39	1.2	2,211	2.5	4,883	0.98 U		1.6		0.98 U
	RPM-E-SUM-08-06-01	39	17	2,211	6.7	4,883	3		5.4		2.7
	RPM-W-SUM-08-06-01	39	1.3	2,211	2.1	4,883	1 U		1.2		1 U
08/07/2001	RPM-N-SUM-08-07-01	39	3.4	2,211	2.4	4,883	0.98 U	<u></u>	1.9		0.98 U
	RPM-S-SUM-08-07-01	39	1.8	2,211	1.8	4,883	0.98 U		1.6	<u> </u>	0.98 U
	RPM-E-SUM-08-07-01	39	23	2,211	12	4,883	2.5		7	<u> </u>	2.7
	RPM-W-SUM-08-07-01	39	3.9	2,211	3.6	4,883	1 U		1.8		1 U
08/08/2001	RPM-N-SUM-08-08-01	39	8.6	2,211	5.4	4,883	1.3		3.7	<u> </u>	1.4 J
	RPM-E-SUM-08-08-01	39	37	2,211	16	4,883	5.7		13		5 J
08/09/2001	RPM-N-SUM-08-09-01	39	4.8	2,211	3.7	4,883	1 U	<u> </u>	2.6		1.2
	RPM-S-SUM-08-09-01	39	1.1 U	2,211	1.3	4,883	1.1 U		1.3	<u> </u>	1.1 U
•	RPM-E-SUM-08-09-01	39	6.6	2,211	4.1	4,883	1.4	<u> </u>	4.3		1.7
	RPM-W-SUM-08-09-01	39	1.1 U	2,211	1.3	4,883	1.1 U		2.5	<u> </u>	1.5
08/10/2001	RPM-S-SUM-08-10-01	39	2	2,211	2	4,883	1.2		1.2 U	<u> </u>	1.2 U
	RPM-W-SUM-08-10-01	39	1.2 U	2,211	1.2 U	4,883	1.2 U	<u> </u>	1.2 U	<u> </u>	1.2 U
08/13/2001	RPM-S-SUM-08-13-01	39	2.6	2,211	1.1	4,883	0.96 U	<u> </u>	0.96 U	<u> </u>	0.96 U
	RPM-W-SUM-08-13-01	39	0.96 U	2,211	0.96 U	4,883	0.96 U		1.5		0.96 U
08/14/2001	RPM-N-SUM-08-14-01	39	1.1 U	2,211	1.3	4,883	1.1 U		1.1 U		1.1 U
	RPM-S-SUM-08-14-01	39	1.1 U	2,211	1.2	4,883	1.1 U	<u> </u>	1.3	_=_	1.1 U
	RPM-E-SUM-08-14-01	39	0.88 U	2,211	1.2	4,883	0.88 U		1.3		0.88 U
	RPM-W-SUM-08-14-01	39	1.1 U	2,211	1.2	4,883	1.1 U		1.7		1.1 U
08/15/2001	RPM-N-SUM-08-15-01	39	1	2,211	1.9	4,883	1 U		1 U	<u> </u>	1 U
,	RPM-E-SUM-08-15-01	39	1 U	2,211	2.4	4,883	1 U		1 U		1 U
	RPM-W-SUM-08-15-01	39	1 U	2,211	3.2	4,883	1 U		1.3	<u> </u>	1 U

⁽¹⁾ U - Indicates compund/analyte was analyzed for but not detected, the associated value is the sample reporting limit (2) J - Indicates estimated value.

(3) ppbv - parts per billion by volume

Table 5 (Continued) **Excavation Air Sampling Analytical Results Rogers Park Pond Parcel**

						Concentr	ation (ppbv)				
		Be	nzene	То	luene	Ethyl	benzene	m,p-	Xylene	o-X	ylene
	}	Action	Analytical	Action	Analytical	Action	Analytical	Action	Analytical	Action	Analytica
Date Sampled	Sample ID	Level	Result	Level	Result	Level	Result	Level	Result	Level	Result
08/16/2001	RPM-N-SUM-08-16-01	39	1 U	2,211	1.8	4,883	1 U		1		1 U
	RPM-S-SUM-08-16-01	39	1 U	2,211	1.4	4,883	1 U		1 U		1 U
	RPM-E-SUM-08-16-01	39	1 U	2,211	1.3	4,883	1 U		1 U		1 U
08/17/2001	RPM-N-SUM-08-17-01	39	1 U	2,211	1 U	4,883	1 U		1 U		1 U
	RPM-S-SUM-08-17-01	39	1 U	2,211	1.2	4,883	1 U		.1 U		1 U
	RPM-E-SUM-08-17-01	39	1 U	2,211	1 U	4,883	1 U		1 U		1 U
	RPM-W-SUM-08-17-01	39	1 U	2,211	1 J	4,883	1 U		1 U		1 U
08/20/2001	RPM-S-SUM-08-20-01	39	1 U	2,211	1 U	4,883	1 U		1 U		1 U
	RPM-E-SUM-08-20-01	39	0.96 U	2,211	1.2	4,883	0.96 U		0.96 U		0.96 U
	RPM-W-SUM-08-20-01	39	1 U	2,211	1.2	4,883	1 U		1.4		1 U
08/21/2001	RPM-N-SUM-08-21-01	39	0.96 U	2,211	2.3	4,883	0.96 U		1.7		0.96 U
	RPM-E-SUM-08-21-01	39	0.96 U	2,211	2.3	4,883	0.96 U		1.1		0.96 U
08/22/2001	RPM-N-SUM-08-22-01	39	1 U	2,211	1.6	4,883	1 U		1 U		1 U
	RPM-S-SUM-08-22-01	39	1 U	2,211	5.3	4,883	1 U		1 U		1 U
	RPM-E-SUM-08-22-01	39	1 U	2,211	5	4,883	1 U		1 J		1 U
	RPM-W-SUM-08-22-01	39	1 U	2,211	4.9	4,883	1 U		1 U		1 U
08/23/2001	RPM-N-SUM-08-23-01	39	0.98 U	2,211	0.98 U	4,883	0.98 U		0.98 U	93	0.98 U
	RPM-S-SUM-08-23-01	39	0.98 U	2,211	2.3	4,883	0.98 U		0.98 U		0.98 U
	RPM-E-SUM-08-23-01	39	0.98 U	2,211	3.3	4,883	3.2		11		6
	RPM-W-SUM-08-23-01	39	0.98 U	2,211	1.9	4,883	0.98 U		0.98 U	-	0.98 U
08/24/2001	RPM-N-SUM-08-24-01	39	1.1 U	2,211	2.8	4,883	2.7		10	-	5.8
	RPM-S-SUM-08-24-01	39	1.1 U	2,211	6.1	4,883	1.1 U		1.1 U	1	1.1 U
	RPM-E-SUM-08-24-01	39	1.1 U	2,211	2.6	4,883	2.2		8.2		4.4
	RPM-W-SUM-08-24-01	39	1.1 U	2,211	1.1 U	4,883	1.1 U		1.1 U		1.1 U
08/27/2001	RPM-N-SUM-08-27-01	39	1 U	2,211	2	4,883	1 U		1 U	-	1 U
	RPM-S-SUM-08-27-01	39	1 U	2,211	2.3	4,883	1 U		3.6		2.6 J
	RPM-E-SUM-08-27-01	39	1 U	2,211	2.1	4,883	1 U		1 U	1	1 U
	RPM-W-SUM-08-27-01	39	1 U	2,211	2	4,883	1 U	-	1 U	1.	1 U
08/28/2001	RPM-S-SUM-08-28-01	39	1 U	2,211	1 U	4,883	1 U		1 U	ţ	1 U
	RPM-W-SUM-08-28-01	39	1 U	2,211	1 U	4,883	1 U	-	1 U	-	1 U
08/29/2001	RPM-N-SUM-08-29-01	39	1 U	2,211	5.5	4,883	1.6		1.1		1 U
4.1	RPM-W-SUM-08-29-01	39	1.3	2,211	2.1	4,883	1 U		1 U		1 U
08/30/2001	RPM-N-SUM-08-30-01	39	1 U	2,211	1.7	4,883	1 U		1 U		1 U
	RPM-S-SUM-08-30-01	39	1.2 U	2,211	1.9	4,883	1.2 U		1.8		1.2 U
	RPM-E-SUM-08-30-01	39	1.2 U	2,211	1.8	4,883	1.2 U		1.2 U		1.2 U
	RPM-W-SUM-08-30-01	39	1.2 U	2,211	1.6	4,883	1.2 U		1.2 U		1.2 U
08/31/2001	RPM-S-SUM-08-31-01	39	1.1 U	2,211	1.1 U	4,883	1.1 U		1.1 U		1.1 U
09/04/2001	RPM-S-SUM-09-04-01	39	0.96 U	2,211	0.96 U	4,883	0.96 U		0.96 U		0.96 U
09/05/2001	RPM-N-SUM-09-05-01	39	1 U	2,211	1 U	4,883	1 U		1 U		1 U
	RPM-S-SUM-09-05-01	39	1 U	2,211	1 U	4,883	1 U		1 U		1 U
ļ	RPM-E-SUM-09-05-01	39	1 U	2,211	11	4,883	1 U		1 U		1 U
	RPM-W-SUM-09-05-01	. 39	0.98 U	2,211	0.98 U	4,883	0.98 U		0.98 U	••	0.98 U
09/06/2001	RPM-N-SUM-09-06-01	39	1.1 U	2,211	2.4	4,883	1.1 U		1.1 U		1.1 U
	RPM-W-SUM-09-06-01	39	1.1	2,211	2.8	4,883	1.1 U		1.2		1.1 U
09/07/2001	RPM-N-SUM-09-07-01	39	1.1 U	2,211	1.1 U	4,883	1.1 U		1.1 U		1.1 U
	RPM-W-SUM-09-07-01	39	1.1 U	2,211	1.3	4,883	1.1 U		1.1 U		1.1 U

NOTES:

(1) U - Indicates compund/analyte was analyzed for but not detected, the associated value is the sample reporting limit
(2) J - Indicates estimated value.
(3) ppbv - parts per billion by volume

Table 5 (Continued) **Excavation Air Sampling Analytical Results Rogers Park Pond Parcel**

				<u> </u>		Concentr	ation (ppbv)				
		Be	nzene	То	luene	Ethyl	benzene	m,p-	Xylene		Ylene
		Action	Analytical	Action	Analytical	Action	Analytical	Action	Analytical	Action	Analytical
Date Sampled	Sample ID	Level	Result	Level	Result	Level	Result	Level	Result	Level	Result
09/10/2001	RPM-N-SUM-09-10-01	39	0.98 U	2,211	1.4	4,883	0.98 U		0.98 U		0.98 U
	RPM-S-SUM-09-10-01	39	0.98 U	2,211	1.1	4,883	0.98 U		0.98 U		0.98 U
	RPM-E-SUM-09-10-01	39	0.96 U	2,211	1	4,883	0.96 U		0.96 U		0.96 U
	RPM-W-SUM-09-10-01	39	0.98 U	2,211	1.2	4,883	0.98 U		0.98 U		0.98 U
09/11/2001	RPM-N-SUM-09-11-01	39	0.98 U	2,211	3	4,883	0.98 U		2.4		1.3
	RPM-W-SUM-09-11-01	39	1 U	2,211	2.6	4,883	1 U		1 U		1 U
09/12/2001	RPM-N-SUM-09-12-01	39	1 U	2,211	1.2	4,883	1 U		1 U		1 U
	RPM-W-SUM-09-12-01	. 39	1 U	2,211	1.5	4,883	1 U		1.1		1 U
09/13/2001	RPM-N-SUM-09-13-01	39	1 U	2,211	2	4,883	1 U		1 U		1 U
	RPM-S-SUM-09-13-01	39	0.88 U	2,211	4.9	4,883	0.88 U		0.88 U		0.88 U
	RPM-E-SUM-09-13-01	39	1 U	2,211	1 U	4,883	1 U		1 U		1 U
	RPM-W-SUM-09-13-01	39	1 U	2,211	1 U	4,883	1 U		1 U		1 U
09/14/2001	RPM-S-SUM-09-14-01	39	1.1 U	2,211	5.2	4,883	6.3		25		11
	RPM-W-SUM-09-14-01	39	0.96 U	2,211	4.8	4,883	6.7		26		13
09/19/2001	RPM-N-SUM-09-19-01	39	0.98 U	2,211	1.3	4,883	0.98 U		0.98 U		0.98 U
	RPM-S-SUM-09-19-01	39	0.98 U	2,211	1.2	4,883	0.98 U		0.98 U		0.98 U
	RPM-E-SUM-09-19-01	39	0.98 U	2,211	1.3	4,883	0.98 U	-	0.98 U		0.98 U
	RPM-W-SUM-09-19-01	39	0.98 U	2,211	1.3	4,883	0.98 U		0.98 U		0.98 U
09/20/2001	RPM-N-SUM-09-20-01	39	1 U	2,211	1 U	4,883	1 U	-	1 U		1 U
	RPM-S-SUM-09-20-01	39	1 U	2,211	1	4,883	1 U		1 U		1 U
	RPM-E-SUM-09-20-01	39	1 U	2,211	1 U	4,883	1 U		1 U		1 U
09/21/2001	RPM-N-SUM-09-21-01	39	1.1 U	2,211	1.1 U	4,883	1.1 U		1.1 U		1.1 U
	RPM-S-SUM-09-21-01	39	1.1 U	2,211	1.1 U	4,883	1.1 U		1.1 U		1.1 U
	RPM-E-SUM-09-21-01	39	1.1 U	2,211	1.1	4,883	1.1 U		1.1 U		1.1 U
	RPM-W-SUM-09-21-01	39	1.1 U	2,211	1.1 U	4,883	1.1 U		1.1 U		1.1 U
09/24/2001	RPM-S-SUM-09-24-01	39	0.86 U	2,211	0.86 U	4,883	0.86 U		0.86 U		0.86 U
	RPM-E-SUM-09-24-01	39	0.92 U	2,211	0.92 U	4,883	0.92 U		0.92 U		0.92 U
09/25/2001	RPM-S-SUM-09-25-01	39	0.94 U	2,211	0.94 U	4,883	0.94 U		0.94 U		0.94 U
·	RPM-E-SUM-09-25-01	39	0.94 U	2,211	0.94 U	4,883	0.94 U		0.94 U		0.94 U
09/26/2001	RPM-N-SUM-09-26-01	39	0.96 U	2,211	0.96 U	4,883	0.96 U		0.96 U		0.96 U
	RPM-S-SUM-09-26-01	39	0.94 U	2,211	0.94 U	4,883	0.94 U		0.94 U		0.94 U
	RPM-E-SUM-09-26-01	39	0.96 U	2,211	0.96 U	4,883	0.96 U		0.96 U		0.96 U
	RPM-W-SUM-09-26-01	39	0.96 U	2,211	0.96 U	4,883	0.96 U		0.96 U		0.96 U

NOTES:

(1) U - Indicates compund/analyte was analyzed for but not detected, the associated value is the sample reporting limit
(2) J - Indicates estimated value.
(3) ppbv - parts per billion by volume

·		Con	Table 6 Remediation Objectives and Confirmation Soil Sampling Analytical Results Rogers Park Pond Parcel	Table 6 Remediation Objectives and tion Soil Sampling Analytic Rogers Park Pond Parcel	al Results			
			Sample I	ocation and Dep	Sample Location and Depth (feet below ground surface)/Concentration	ind surface)/Conc	centration	
	Remediation	RPP-CS01	RPP-CS02	RPP-CS03	RPP-CS04	RPP-CS04	RPP-CS04	RPP-CS04
Compound/Analyte	Objectives	-001	-001	-001	-001	-005	-003	-004
		06/21/01	06/26/01	06/26/01	06/21/01	06/25/01	06/28/2001	09/21/2001
			BTEX/St	BTEX/Styrene (mg/kg)				
Benzene	0.17	NA	NA	NA	NA	NA	NA	NA
Toluene	29	NA	NA	NA	NA	NA	NA	NA
Ethyl Benzene	19	NA	NA	NA	NA	NA	NA	NA
Xylenes (total)	NR	NA	NA	NA	NA	NA	NA	NA
Styrene	NR	NA	NA NA	NA	NA	NA	NA	NA
		Polynuclear		rbons Method 82	8270C SIM (mg/kg)			
Acenaphthene	NR	0.025 U	0.025 U	0.025 U	0.025 U	0.078	060:0	0.031 U
Acenaphthylene	NR	0.025 U	0.025 U	0.025 U	0.106	0.99	2.09	0.031 U
Anthracene	NR	0.025 U	0.025 U	0.025 U	0.133	0.501	0.362	0.031 U
Benzo[a]anthracene	0.0	0.051	0.025 U	0.025 U	0.565	908.0	2.91	0.031 U
Benzo[b]fluoranthene	6.0	0.033	0.025 U	0.025 U	0.598	0.331	1.62	0.031 U
Benzo[k]fluoranthene	6	0.038	0.025 U	0.025 U	0.336	0.491	1.16	0.031 U
Benzo[g,h,i]perytene	NR	0.026	0.025 U	0.025 U	0.273	0.295	0.480	0.031 U
Benzo[a]pyrene	0.00	0.043	0.025 U	0.025 U	0.430	0,584	2.01	0.031 U
Chrysene	88	0.061	0.025 U	0.025 U	0.642	0.895	3.01	0.031 U
Dibenzo[a,h]anthracene	0.09	0.025 U	0.025 U	0.025 U	0.139	0.142	0.378	0.031 U
Finoranthene	NR	0.064	0.025 U	0.025 U	0.693	1.75	2.29	0.031 U
Fluorene	NR	0.025 U	0.025 U	0.025 U	0.025 U	0.252	0.217	0.031 U
Indeno[1,2,3-cd]pyrene	0.0	0.026	0.025 U	0.025 U	0.254	0.305	0.512	0.031 U
Naphthalene	1.8	0.025 U	0.025 U	0.025 U	0.025 U	0.028	0.088	0.031 U
Phenanthrene	NR.	0.029	0.025 U	0.025 U	0.295	0.981	0.329	0.031 U
Pyrene	NR	0.065		0.025 U	0.646	1.68	4.520	0.031 U
			als M	ethod 6020 (mg/kg				
Beryllium	NR	0.733 J	0.707	0.844	0.678 J	NA	NA	NA
Chromium	28	19.3	19.5	21.1	21.8	ΝA	NA	NA
Lead	400	234	21.0	22.6	151	NA	NA	NA
			SPLP Metals Method 1312/6020 (mg/L	hod 1312/6020 (r	ng/L)			
Beryllium	NR	0.010 J	0.01 U	0.010 U	0.010 UJ	NA	NA	NA
Chromum		0.041	0.307	0.014	0.017	NA	NA	NA
Lead	0.1	0.025	0.117	0.007	0.223	ΑN	0.008	NA

⁽¹⁾ U-Indicates counpound/analyte was analyzed for but not detected, the associated value is the sampling reporting limit.
(2) J- Indicates an estimated Value
(3) NA- Not Analyzed
(4) NR - Remedial objective not required - all concentrations below TACO Tier 1 levels.

	Conf	Table 6 (Continued) Remediation Objectives and Confirmation Soil Sampling Analytical Results Rogers Park Pond Parcel	Table 6 (Continued) Remediation Objectives and tion Soil Sampling Analytic Rogers Park Pond Parcel	al Results		
		Sample I	ocation and Dep	th (feet below gro	Sample Location and Depth (feet below ground surface)/Concentration	ntration
	Remediation	RPP-CS05	RPP-CS06	RPP-CS07	RPP-CS07	RPP-CS07
Compound/Analyte	Objectives	-001	-001	-001	-002	-003
		06/21/01	06/27/01	06/21/01	06/25/01	06/28/01
		BTEX/St	BTEX/Styrene (mg/kg)			
Benzene	0.17	NA	NA	NA	NA	NA
Toluene	29	NA	NA	NA	NA	NA
Ethyl Benzene	19	NA	NA	NA	NA	NA
Xylenes (total)	NR	NA	NA	NA	NA	NA
Styrene	NR	NA	NA	NA	NA	NA
	clear	Aromatic Hydroca	arbons Method 82	Aromatic Hydrocarbons Method 8270C SIM (mg/kg)		
Acenaphthene	NR	0.025 U	0.025 U	0.025 U	0.436	0.025 U
Acenaphthylene	NR	0.025 U	0.025 U	0.025 U	0.452	0.025 U
Anthracene	R.	0.025 U	0.025 U	0.051	1.940	0.025 U
Benzo[a]anthracene	6.0	0.032	0.025 U	0.297	3.81	0.025 U
Benzo[b]fluoranthene	6.0	0.025 U	0.025 U	0.204	1.77	0.025 U
Benzo[k]fluoranthene	6	0.025 U	0.025 U	0.187	1.750	0.025 U
Benzo[g,h,i]perylene	NR	0.025 U	0.025 U	0.098	0.579	0.025 U
Benzo[a]pyrene	0.09	0.025 U	0.025 U	0.199	1.760	0.025 U
Chrysene	88	0.033	0.025 U	0.327	4.280	0.025 U
Dibenzo[a,h]anthracene	0.00	0.025 U	0.025 U	0.048	0.313	0.025 U
Fluoranthene	NR R	0.048	0.025 U	0.394	9.820	0.025 U
Fluorene	NR	0.025 U	0.025 U	0.025 U.	0.555	0.025 U
Indeno[1,2,3-cd]pyrene	0.0	0.025 U	0.025 U	0.115	0.652	0.025 U
Naphthalene	NR	0.025 U	0.025 U	0.025 U	0.026	0.025 U
Phenanthrene	NR	0.025 U	0.025 U	0.198	5.120	0.025 U
Pyrene	NR	0.046	0.025 U	0.340	7.730	0.025 U
		Total Metals M	Total Metals Method 6020 (mg/kg	(සි)		
Beryllium	NR	0.607 J	0.658	0.288 J	NA	NA
Chromium	28	18.5	17.0	10.4	NA	NA
Lead	400	34.5	13.3	116	NA	NA
		SPLP Metals Method 1312/6020 (mg/L	hod 1312/6020 (r			
Beryllium	NR	0.010 UJ	0:010 U	U 010.0	NA	NA
Chromium	1	0.021	0.025	0.070	AN	NA
Lead	0.1	0.021	0.033	0.044	NA	NA

NOTES:

(1) U-Indicates counpound/analyte was analyzed for but not detected, the associated value is the sampling reporting limit.

(2) J- Indicates an estimated Value

(3) NA- Not Analyzed

(4) NR - Remedial objective not required - all concentrations below TACO Tier I levels.

	Conf	Table 6 (Continued) Remediation Objectives and Confirmation Soil Sampling Analytical Results Rogers Park Pond Parcel	Table 6 (Continued) Remediation Objectives and tion Soil Sampling Analytica Rogers Park Pond Parcel	ıl Results		
		Sample I	ocation and Dept	h (feet below grou	Sample Location and Depth (feet below ground surface)/Concentration	ntration
	Remediation	RPP-CS08	RPP-CS08	RPP-CS08	RPP-CS09	RPP-CS10
Compound/Analyte	Objectives	-001	-002	-003	-001	-001
		06/21/01	06/25/01	06/28/01	06/27/01	06/29/01
		BTEX/St	BTEX/Styrene (mg/kg)			
Benzene	0.17	NA	NA	NA	NA	NA
Toiuene	29	NA	NA	NA	NA	NA
Ethyl Benzene	19	NA	NA	NA	AN	NA
Xylenes (total)	NR	NA	NA	NA	NA	NA
Styrene	NR	NA	NA	NA	NA	NA
	clear	Aromatic Hydrocarbons Method 8270C SIM (mg/kg)	urbons Method 82'	70C SIM (mg/kg)		
Acenaphthene	NR	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U
Acenaphthylene	NR	0.064	0.145	0.025 U	0.025 U	0.025 U
Anthracene	NR	0.059	0.055	0.025 U	0.025 U	0.025 U
Benzo[a]anthracene	6.0	0.258	0.167	0.025 U	0.025 U	0.025 U
Benzo[b]fluoranthene	0.0	0.188	0.242	0.025 U	0.025 U	0.025 U
Benzo[k]fluoranthene	6	0.156	0.133	0.025 U	0.025 U	0.025 U
Benzo[g,h,i]perylene	NR	0.0078	0.070	0.025 U	0.025 U	0.025 U
Benzo[a]pyrene	0.09	0.164	0.168	0.025 U	0.025 U	0.025 U
Chrysene	88	0.295	0.204	0.025 U	0.025 U	0.025 U
Dibenzo[a,h]anthracene	0.09	0.046	0.033	0.025 U	0.025 U	0.025 U
Fluoranthene	NR	0.276	0.232	0.025 U	0.025 U	0.025 U
Fluorene	NR	0.025 U	0.036	0.025 U	0.025 U	0.025 U
Indeno[1,2,3-cd]pyrene	6.0	0.085	0.073	0.025 U	0.025 U	0.025 U
Naphthalene	1.8	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U
Phenanthrene	NR	0.104	0.073	0.025 U	0.025 U	0.025 U
Pyrene	NR	0.241	0.240	0.025 U	0.025 U	0.025 U
		Total Metals M	Total Metals Method 6020 (mg/kg			
Beryllium	NR	0.361 J	NA	NA	069.0	0.694
Chromium	28	9.46	NA	NA	18.8	17.2
Lead	400	137	NA	NA	14.6	12.5
		SPLP Metals Met	SPLP Metals Method 1312/6020 (mg/L			
Beryllium	NR	U 0.010	NA	NA	0.010 U	0.010 U
Chromium		0.010 U	NA	NA	0.147	0.019
Lead	0.1	0.058	NA	NA	0.012	0.007

NOTES:

(1) U-Indicates counpound/analyte was analyzed for but not detected, the associated value is the sampling reporting limit.
(2) I-Indicates an estimated Value.
(3) NA-Not Analyzed
(4) NR - Remedial objective not required - all concentrations below TACO Tier 1 levels.

		Ren Confirmation	Table 6 (Continued) Remediation Objectives and tion Soil Sampling Analytic Rogers Park Pond Parcel	Table 6 (Continued) Remediation Objectives and Confirmation Soil Sampling Analytical Results Rogers Park Pond Parcel			
-	Remediation	RPM-CSH-01U	Sample Location RPM-CSH-01L	Sample Location and Depth (feet below ground surface)/Concentration RPM-CSH-01L RPM-CSH-02U RPM-CSH-03L RPM-CSH-03U RPM-CSH-03L	low ground surfa RPM-CSH-02L	ce)/Concentration RPM-CSH-03U	RPM-CSH-03L
Compound/Analyte	Objectives	10//2//01	07/27/01	07/27/01	07/27/01	07/27/01	07/27/01
			BTEX/Styrene (mg/kg)	g/kg)			
Benzene	0.17	0.002 U	0.002 U	900.0	0.002 U	0.002 U	0.002 U
Toluene	29	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
Kulana (tana)		0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
Aylenes (total) Styrene	NK NP	0.005 U	0.005 U	0.003	0.005 U	0.005 U	0.005 U
	- []	O COOL	U.O.O.O.O.	0.0000	0.000	0.00.0	0.000
A	- 11	incical Aromanic	TIYULUCALDUIIS IN	Olympical Alomatic Hydrocalbolis Method 6270C 31M (INB/Kg)	(mg/kg)		
Acenaphthene	NK.	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025.U
Acenaphthylene	XX	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U
Anthracene	NR.	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U
Benzo[a]anthracene	6.0	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U
Benzo[b]fluoranthene	6.0	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U
Benzo[k]fluoranthene	6	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U
Benzo[g,h,i]perylene	NR	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U
Benzo[a]pyrene	0.00	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U
Chrysene	88	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U
Dibenzo[a,h]anthracene	0.09	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U
Fluoranthene	N.	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U
Fluorene	NR	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U
Indeno[1,2,3-cd]pyrene	6:0	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U
Naphthalene	1.8	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U
Phenanthrene	NR	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U
Pyrene	NR	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U
		Total	Total Metals Method 6020 (mg/kg)	120 (mg/kg)			
Beryllium	NR	NA	NA	NA	NA	NA	NA
Chromium	28	NA	NA	NA	NA.	NA	NA
Lead	400	15.9	19.3	12.3	14.8	14.3	19.3
		SPLPM	SPLP Metals Method 1312/6020 (mg/L)	2/6020 (mg/L)			
Beryllium	NR	NA	NA	NA	NA	NA	NA
Chromium	1	NA	NA	NA	NA	NA	NA
Lead	0.1	0.01	0.022	0.022	0.005 U	0.082	0.005 U
NOTES:				-			

(1) U-Indicates counpound/analyte was analyzed for but not detected, the associated value is the sampling reporting limit.
(2) I- Indicates an estimated Value
(3) NA-Not Analyzed
(4) NR - Remedial objective not required - all concentrations below TACO Tier 1 levels.

		Coni	Table 6 Remediation firmation Soil Sa Rogers Pa	Table 6 (Continued) Remediation Objectives and Confirmation Soil Sampling Analytical Results Rogers Park Pond Parcel	i Results			
				Sample Location and Depth (feet below ground surface)/Concentration	h (feet below gro	und surface)/Conc	entration	
Compound/Analyte	Remediation	RPM-CSH-04U	RPM-C	RPM-CSH-05U	RPM-CSH-05L	RPM-CSH-05U RPM-CSH-05L RPM-CSH-06U RPM-CSH-06U	RPM-CSH-06U	RPM-CSH-06L
	ra marían	07/27/01	07/27/01	08/01/01	08/01/01	08/15/01	-02	08/15/01
			BTEX/St	/Styrene (mg/kg)				
Benzene	0.17	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U
Toluene	29	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
Ethyl Benzene	19	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
Xylenes (total)	NR	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
Styrene	NR	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
		Polynuclear	Aromatic Hydroca	Aromatic Hydrocarbons Method 8270C SIM (mg/kg)	70C SIM (mg/kg)			
Acenaphthene	NR	0.025 U	0.025 U	0.025 U	0.025 U	680.0	0.025 U	0.025 U
Acenaphthylene	NR	0.025 U	0.025 U	0.025 U	0.025 U	1.38	0.025 U	0.025 U
Anthracene	NR	0.025 U	0.025 U	0.025 U	0.025 U	0.541	0.025 U	0.025 U
Benzo[a]anthracene	6.0	0.025 U	0.025 U	0.025 U	0.025 U	1.17	0.025 U	0.025 U
Benzo[b]fluoranthene	0.0	0.025 U	0.025 U	0.025 U	0.025 U	0.273	0.025 U	0.025 U
Benzo[k]fluoranthene	6	0.025 U	0.025 U	0.025 U	0.025 U	0.370	0.025 U	0.025 U
Benzo[g,h,i]perylene	NR	0.025 U	0.025 U	0.025 U	0.025 U	0.103	0.025 U	0.025 U
Benzo[a]pyrene	0.09	0.025 U	0.025 U	0.025 U	0.025 U	0.424	0.025 U	0.025 U
Chrysene	88	0.025 U	0.025 U	0.025 U	0.025 U	1.06	0.025 U	0.025 U
Dibenzo[a,h]anthracene	0.09	0.025 U	0.025 U	0.025 U	0.025 U	0.055	0.025 U	0.025 U
Fluoranthene	NR	0.025 U	0.025 U	0.025 U	0.025 U	1.79	0.025 U	0.025 U
Fluorene	NR	0.025 U	0.025 U	0.025 U	0.025 U	0.238	0.025 U	0.025 U
Indeno[1,2,3-cd]pyrene	6.0	0.025 U	0.025 U	0.025 U	0.025 U	0.104	0.025 U	0.025 U
Naphthalene	1.8	0.025 U	0.025 U	0.025 U	0.025 U	1.34	0.025 U	0.025 U
Phenanthrene	N. N.	0.025 U	0.032	0.025 U	0.025 U	1.98	0.025 U	0.025 U
Pyrene	NR	0.025 U	0.025 U	0.025 U	0.025 U	2.81	0.025 U	0.025 U
			Total Metals M	Total Metals Method 6020 (mg/kg)	g)			
Beryllium	NR R	NA	NA	NA	NA	NA	NA	NA
Chromium	28	NA	NA	NA	NA	NA	NA	NA
Lead	400	12.8	16.3	15.1	14.1	14.0	NA	18.7
			امتا	Method 1312/6020 (mg/L)				
Beryllium	NR	NA	NA	NA	NA	NA	NA	NA
Chromum	-	NA	NA	NA	AN	NA	NA	NA
Lead	0.1	0.013	0.013	0.012	0.005 U	0.006	NA	0.008

(1) U- Indicates counpound/analyte was analyzed for but not detected, the associated value is the sampling reporting limit.

(2) J. Indicates an estimated Value
(3) NA- Not Analyzed
(4) NR - Remedial objective not required - all concentrations below TACO Tier 1 levels.

		Ren Confirmation	Table 6 (Continued) Remediation Objectives and Confirmation Soil Sampling Analytical Results Rogers Park Pond Parcel	red) ves and nalytical Result. Parcel	80		
			Sample Location	and Depth (feet be	slow ground surface	e)/Concentration	
Compound/Analyte	Remediation Objectives	RPM-CSH-07U	RPM-CSH-07U	RPM-CSH-07L	RPM-CSH-07U RPM-CSH-07L RPM-CSH-08U RPM-CSH-08L -0.02	RPM-CSH-08L	RPM-CSH-09
		08/15/01	08/30/01	08/15/01	08/01/01	08/01/01	08/08/01
			BTEX/Styrene (mg/kg)	g/kg)			
Benzene	0.17	1.94	0.002 U	0.002 U	0.002 U	0.002 U	0.002
Toluene	29	0.504	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
Ethyl Benzene	19	0.411	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
Xylenes (total)	NR	2.45	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
Styrene	NR	0.590	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
	Pol	Polynuclear Aromatic Hydrocarbons Method 8270C SIM (mg/kg)	Hydrocarbons M	ethod 8270C SIM	(mg/kg)		
Acenaphthene	1 1	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U
Acenaphthylene	NR	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U
Anthracene	NR	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U
Benzo[a]anthracene	6.0	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U
Benzo[b]fluoranthene	6.0	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U
Benzo[k]fluoranthene	6	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U
Benzo[g,h,i]perylene	NR	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U
Benzo[a]pyrene	0.09	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U
Chrysene	88	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U
Dibenzo[a,h]anthracene	0.09	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U
Fluoranthene	NK.	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U
Fluorene	NR	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U
Indeno[1,2,3-cd]pyrene	0.0	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U
Naphthalene	1.8	0.073	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U
Phenanthrene	NR	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U
Pyrene	NR	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U
		Total	otal Metals Method 6020 (mg/kg)	20 (mg/kg)			
Beryllium	NR	NA	NA	NA	NA	NA	NA
Chromum	28	NA	NA	NA	NA	NA	NA
Lead	400	15.6	NA	16.6	16.9	19.7	13.9
		SPLP M	SPLP Metals Method 1312/6020 (mg/L	76020 (mg/L)			
Beryllium	NR	NA	NA	NA	NA	NA	NA
Chromium	-	NA	NA	Ϋ́N	NA	NA	NA
Lead	0.1	0.005 U	NA	0.005 U	0.009	0.006	0.011

(1) U-Indicates counpound/analyte was analyzed for but not detected, the associated value is the sampling reporting limit.
(2) J-Indicates an estimated Value.
(3) NA- Not Analyzed
(4) NR- Remedial objective not required - all concentrations below TACO Tier 1 levels.

		Ren Confirmation	Table 6 (Continued) Remediation Objectives and Confirmation Soil Sampling Analytical Results Rogers Park Pond Parcel	ied) ves and nalytical Result Parcel	a		
			Sample Location	and Depth (feet be	Sample Location and Depth (feet below ground surface)/Concentration	2e)/Concentration	
Compound/Analyte	Remediation Objectives	RPM-CST-01U	RPM-CST-01L	RPM-CST-01L RPM-CST-02U	RPM-CST-02L RPM-CST-03U	RPM-CST-03U	RPM-CST-03L
		08/03/01	08/03/01	08/03/01	08/03/01	08/15/01	08/15/01
			BTEX/Styrene (mg/kg)	g/kg)			
Benzene	0.17	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U
Toluene	29	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
Ethyl Benzene	19	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
Xylenes (total)	NR.	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
Styrene	NR I	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
	- 1	nuclear Aromatic	Polynuclear Aromatic Hydrocarbons Method 8270C SIM (mg/kg)	ethod 8270C SIM	(mg/kg)		
Acenaphthene	NR	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U
Acenaphthylene	NR	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U
Anthracene	NR.	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U
Benzo a anthracene	0.9	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U
Benzo[b]fluoranthene	0.0	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U
Benzo k fluoranthene	6	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U
Benzolg,h,1]perylene	ž	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U
Benzolajpyrene	0.09	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U
Chrysene	88	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U
Dibenzo a,h anthracene	0.00	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U
Fluoranthene	X.	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U
Fluorene	NK S	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U
Indehol 1,2,3-cdjpyrene	0.9	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U
Phenanthrene	o: T	0.023 U	0.023 0	0.025 U	0.022 U	0.025 U	0.025 U
Pyrene	NR NR	0.022 0	0.023 U	0.023 U	0.025 0	0.022 0	0.025 U
		Total	Motole Mathed CO	0 670.0	0.043.0	0.620.0	0.023 0
			otal Metals Melliod 6020 (mg/kg)	zu (mg/kg)			
Beryllium	NK	NA	NA	NA	NA	NA	NA
Chromium	28	NA	NA	NA	NA	NA	NA
Lead	400	15.5	14.2	15.4	14.5	14.2	16.1
		SPLP Me	SPLP Metals Method 1312	312/6020 (mg/L)		,	
Beryllium	NR	NA	NA	NA	NA	NA	NA
Chromium		NA	NA	NA	NA	NA	NA
Lead	0.1	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.013

⁽¹⁾ U- Indicates counpound/analyte was analyzed for but not detected, the associated value is the sampling reporting limit.
(2) J. Indicates an estimated Value
(3) NA- Not Analyzed
(4) NR - Remedial objective not required - all concentrations below TACO Tier 1 levels.

Compound/Analyte	Remediation	Ren Confirmation R RPM-CST-04U 08/08/01	Table 6 (Continued) Remediation Objectives and ation Soil Sampling Analytic: Rogers Park Pond Parcel Sample Location and Dep 4U RPM-CST-04L RPM-(08/08/01 08/0	Table 6 (Continued) Remediation Objectives and Rogers Park Pond Parcel Sample Location and Depth (feet below ground surface)/Concentration	nd surface)/Concentration
Benzene	0.17	0.002 U	0.002 U	0.002 U	
Toluene	29	0.005 U	0.005 U	0.005 U	
Ethyl Benzene	19	0.005 U	0.005 U	0.005 U	
Aylenes (total)	X Z	0.005 U	0.005 U	0.005 U	
Stytetic	J NK J	0.005 U	0.005 U Hydrocarbons M	Polynuclear Aromatic Hydrocarbons Method 8270C SIM (me/ke)	
Acenaphthene	NR	0.025 U	0.025 U	0.025 U	
Acenaphthylene	NR	0.025 U	0.025 U	0.025 U	
Anthracene	NR	0.025 U	0.025 U	0.025 U	
Benzo[a]anthracene	6.0	0.025 U	0.025 U	0.025 U	
Benzo[b]fluoranthene	6.0	0.025 U	0.025 U	0.025 U	
Benzo[k]fluoranthene	6	0.025 U	0.025 U	0.025 U	
Benzofg,h,i]perylene	NR.	0.025 U	0.025 U	0.025 U	
Benzo[a]pyrene	0.09	0.025 U	0.025 U	0.025 U	
Chrysene	88	0.025 U	0.025 U	0.025 U	
Dibenzo[a,h]anthracene	0.00	0.025 U	0.025 U	0.025 U	
Fluoranthene	NR	0.025 U	0.025 U	0.025 U	
Fluorene	Ŗ	0.025 U	0.025 U	0.025 U	
Indeno[1,2,3-cd]pyrene	0.0	0.025 U	0.025 U	0.025 U	
Naphthalene	1.8	0.025 U	0.025 U	0.025 U	
Phenanthrene	NR	0.025 U	0.025 U	0.025 U	
Pyrene	NR	0.025 U	0.025 U	0.025 U	
		Total	Total Metals Method 6020 (mg/kg)	20 (mg/kg)	
Beryllium	NR	NA	NA	NA	
Chromum	28	NA	NA	NA	
Lead	400	16.3	13.3	16.2	
		SPLP M	etals Method 1312	76020 (mg/L)	
Beryllium	NR	NA	NA AN AN	NA I	
Chromium		AN	AN	NA	
Lead	0.1	0.005 U	0.005 U	0.011	
NOTES:					

⁽¹⁾ U-Indicates counpound/analyte was analyzed for but not detected, the associated value is the sampling reporting limit.
(2) I-Indicates an estimated Value.
(3) NA- Not Analyzed
(4) NR - Remedial objective not required - all concentrations below TACO Tier I levels.

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		Ren Confirmation Re	Table 6 (Continued) Remediation Objectives and tion Soil Sampling Analytic Rogers Park Pond Parcel	Table 6 (Continued) Remediation Objectives and Confirmation Soil Sampling Analytical Results Rogers Park Pond Parcel		
			Sample Location	and Depth (feet belo	Sample Location and Depth (feet below ground surface)/Concentration	Γ
Compound/Analyte	Remediation	RPM-N-Pipe	RPM-S-Pipe	RPM-B-Pipe		
	2000	09/04/01	09/04/01	09/04/01		T
			BTEX/Styrene (mg/kg)	y/kg)		Γ
Benzene	0.17	0.002 U	0.002 U	0.002 U		Γ
Toluene	29	0.005 U	0.005 U	0.005 U		T
Ethyl Benzene	19	0.005 U	0.005 U	0.005 U		Ī
Xylenes (total)	NR R	0.005 U	0.00 5 U	0.005 U		Π
Styrene	NR	0.005 U	0.005 U	0.005 U		Γ
	1 1	ynuclear Aromatic	Hydrocarbons Mo	Polynuclear Aromatic Hydrocarbons Method 8270C SIM (mg/kg)	ng/kg)	
Acenaphthene		0.025 U	0.025 U	0.025 U		Γ
Acenaphthylene	NR	0.025 U	0.025 U	0.025 U		
Anthracene	NR	0.025 U	0.025 U	0.025 U		Π
Benzo[a]anthracene	6:0	0.025 U	0.025 U	0.025 U		Γ
Benzo[b]fluoranthene	6.0	0.025 U	0.025 U	0.025 U		
Benzo[k]fluoranthene	6	0.025 U	0.025 U	0.025 U		
Benzo{g,h,i]perylene	NR	0.025 U	0.025 U	0.025 U		
Benzo[a]pyrene	0.09	0.025 U	0.025 U	0.025 U		
Chrysene	88	0.025 U	0.025 U	0.025 U		Γ
Dibenzo[a,h]anthracene	0.09	0.025 U	0.025 U	0.025 U		Γ
Fluoranthene	NR	0.025 U	0.025 U	0.025 U		
Fluorene	NR	0.025 U	0.025 U	0.025 U		Γ
Indeno[1,2,3-cd]pyrene	6.0	0.025 U	0.025 U	0.025 U		
Naphthalene	1.8	0.025 U	0.025 U	0.025 U		
Phenanthrene	NR	0.025 U	0.025 U	0.025 U		
Pyrene	NR	0.025 U	0.025 U	0.025 U		
		Total 1	Total Metals Method 6020 (mg/kg)	20 (mg/kg)		Γ
Beryllium	NR	NA	NA	NA		Γ
Chromium	28	NA	NA	NA		Π
Lead	400	12.9	9.87	26.4		Π
		SPLP Me	stals Method 1312	/6020 (mg/L)		
Beryllium	NR	NA	NA NA NA	NA		
Chromium	1	NA	NA	NA		
Lead	0.1	0.005 U	0.005 U	0.005 U		Γ
NOTES.						1

NOTES:

(1) U-Indicates coumpound/analyte was analyzed for but not detected, the associated value is the sampling reporting limit.
(2) I-Indicates an estimated Value
(3) NA- Not Analyzed
(4) NR - Remedial objective not required - all concentrations below TACO Tier 1 levels.

REMEDIATION OBJECTIVES REPORT/ REMEDIAL ACTION PLAN/ REMEDIAL ACTION COMPLETION REPORT

for

THE ROGERS PARK SUB-SHOP POND PARCEL 6631 NORTH KEDZIE AVENUE CHICAGO, ILLINOIS

Prepared for

THE PEOPLES GAS LIGHT and COKE COMPANY

NOVEMBER 2001

PROJECT NO. 27194

Burns & McDonnell 2601 West 22nd Street Oak Brook, Illinois 60523-1229 630-990-0300

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EXECUTIVE SUMMARY

This combination Remediation Objectives Report/Remedial Action Plan/Remedial Action Completion Report (ROR/RAP/RACR) presents and describes remediation objectives as well as remedial actions that were implemented on the Rogers Park Sub-Shop Pond Parcel (site) to accomplish the remedial objectives presented herein. This site is approximately 1.8-acres in size and is located at 6631 North Kedzie Avenue in Chicago, Illinois. The ROR/RAP/RACR has been prepared by Burns & McDonnell Engineering Company (Burns & McDonnell) on behalf of The Peoples Gas Light and Coke Company (Peoples Gas) in accordance with requirements set forth in Chapter 35 of the Illinois Administrative Code (IAC), Part 740 – Site Remediation Program (SRP).

Peoples Gas currently owns a 10.2-acre parcel of land located on North Kedzie Avenue in Chicago, Illinois referred to as the Rogers Park Sub-Shop Facility (formerly referred to as the North Shore Avenue Station). The North Shore Avenue Station has recently been subdivided into the following three (3) Parcels:

- The East Parcel, approximately 3 acres in size, is a vacant lot, covered by vegetation and an unused paved entrance to the property.
- The northern and interior portion of the facility, approximately 5.4 acres in size, is referred to as the Main Parcel.
- The southwest central portion of the property, referred to as the Pond Parcel, is approximately 1.8 acres in size, and currently consists of vacant land and a parking lot.

The Pond Parcel is the subject of this ROR/RAP/RACR.

The purpose of the ROR/RAP/RACR is to present corrective measures proposed and completed to eliminate exposure to benzene, toluene, ethylbenzene constituents, polynuclear aromatic hydrocarbons (PAH) constituents, lead and chromium found in surface and subsurface soils on the Pond Parcel. Corrective measures implemented include the removal of source material and impacted surface and subsurface soil. This ROR/RAP/RACR describes soil remediation activities that were implemented and conducted from mid-June 2001 to October 2001 on the Rogers Park Sub-Shop Pond Parcel.

Site Investigation (SI) activities were performed on the Rogers Park Sub-Shop Pond Parcel in December 1999 and January 2000 and again in May and June 2001, in accordance with Illinois EPA approved procedures. The SI Report was submitted to the Illinois Environmental Protection Agency (Illinois EPA) on September 14, 2001. In late 1999 and early 2000, six (6) borings were advanced in the area and one (1) surface soil sample was collected. During the 2001 investigation, nineteen (19) soil borings and six (6) probes were advanced at various locations

around the site, each to a depth of twenty (20) feet below ground surface (bgs). Soil samples were collected from various depths within each soil boring, delivered to an analytical laboratory and analyzed for either Target Compound List (TCL) volatile organic compounds (VOCs), BTEX, styrene, TCL semivolatile organic compounds (SVOCs), PAHs, priority pollutant metals or Resource Conservation and Recovery Act (RCRA) metals, and cyanide. Certain soil samples were also analyzed for Synthetic Precipitation Leaching Procedure (SPLP) lead and SPLP chromium. Physical soil testing was also conducted. Four groundwater monitoring wells were installed in the surrounding areas and one (1) well was installed inside the Pond Parcel as part of the 2001 field activities. Groundwater samples were collected from five (5) monitoring wells in June 2001. The groundwater samples were collected and analyzed for TCL VOCs, PAHs, RCRA metals, and total cyanide.

During SI field activities, odors and visual staining were noted at the following locations: RPM-SB30, RPM-SB61, RPM-SP062, RPM-SP064, B-18, RPM-SB29A, B-15, and B-16. Source material was identified at these locations within the Pond Parcel during the SI. Shallow groundwater was encountered in nineteen (19) borings on the Pond Parcel at depths ranging from five (5) to sixteen (16) feet bgs. Subsurface investigations support the presence of shallow perched groundwater.

Exposure pathways identified for evaluation include soil ingestion, soil inhalation, soil migration to Class II groundwater and ingestion of Class II groundwater. A Tier 1 evaluation, in accordance with TACO, as specified in 35 IAC Part 742, was conducted to evaluate residential population exposures via these pathways. In general, exceedences of Tier 1 values for soil ingestion were identified in near surface soils (typically within the top foot and in limited cases, as deep as 3 feet) for benzene, a limited list of SVOC constituents, and lead. Benzene was the only VOC constituent to exceed the Tier 1 soil level for the soil inhalation exposure route. This exceedence was in the two (2) limited source areas identified as part of this investigation. Exceedences of Tier 1 values for benzene, ethylbenzene, toluene, benzo(a)anthracene, dibenzo(a,h)anthracene, and chromium for the soil migration to groundwater pathway were identified in limited soil samples. No groundwater samples exceeded the Tier 1 levels for the ingestion of Class II groundwater exposure pathway.

The TACO Tier 1 values pertaining to a residential population were used as remediation objectives for the Pond Parcel. All soil exceeding TACO Tier 1 values was removed.

In general, remedial actions included site preparation, installation of a sheet pile wall to facilitate deeper excavation, waste characterization, excavation and off site disposal of impacted soil, excavation and decontamination of former structures associated with the former gas holder, confirmation soil samples, ambient air monitoring during construction, installation and maintenance of soil erosion and sediment control, backfilling excavated areas with gravel and crushed concrete imported from off site, and demobilization. Approximately 25,020 tons of

special waste was disposed of at the CID facility in Illinois and 1,137 tons was disposed of at the Roachdale facility in Indiana.

Confirmation soil sampling was conducted in order to demonstrate that remediation objectives were met. Certain areas required additional excavation once initial confirmation sample results were obtained. These areas were excavated further and additional confirmation samples were collected and analyzed. Excavation continued until remediation objectives were met.

In accordance with 35 IAC Part 742 and Section 742.1015, Subpart J, no special conditions apply to the Rogers Park Sub-Shop Pond Parcel site. The remedial action is a final action, and a Comprehensive No Further Remediation Letter is anticipated. No institutional controls or monitoring are required.

The data presented in this ROR/RAP/RACR is accurate and complete. No further remedial activity is necessary on the Rogers Park Pond Parcel.

1.0 INTRODUCTION

In conformance with the Illinois Environmental Protection Agency (Illinois EPA) Site Remediation Program (SRP), defined in Chapter 35 of the Illinois Administrative Code (IAC), Subtitle G, Waste Disposal, Chapter I: Pollution Control Board, Part 740, The Peoples Gas Light and Coke Company (Peoples Gas) contracted Burns & McDonnell Engineering Company (Burns & McDonnell) to complete this Remediation Objectives Report/Remedial Action Plan/Remedial Action Completion Report (ROR/RAP/RACR) of the Rogers Park Sub-Shop Pond Parcel (site) in Chicago, Illinois.

Peoples Gas currently owns a 10.2-acre parcel of land located on North Kedzie Avenue in Chicago, Illinois referred to as the Rogers Park Sub-Shop Facility (formerly referred to as the North Shore Avenue Station). The North Shore Avenue Station has recently been subdivided into the following three (3) Parcels:

- The East Parcel, approximately 3 acres in size, is a vacant lot, covered by vegetation and an unused paved entrance to the property.
- The northern and interior portion of the facility, approximately 5.4 acres in size, is referred to as the Main Parcel.
- The southwest central portion of the property, referred to as the Pond Parcel, is approximately 1.8 acres in size, and currently consists of vacant land and a parking lot.

This ROR/RAP/RACR presents recognized environmental conditions and related constituents of concern (COCs) and remediation objectives for the Pond Parcel, in accordance with the Tiered Approach to Corrective Action Objectives (TACO) Tier 1 residential levels, presented in 35 IAC Part 742. TACO is the Illinois EPA's method for developing remediation objectives for contaminated soil and groundwater in Illinois. TACO consists of the following approaches:

- Exclusion of exposure routes
- Use of area background concentrations as screening tools or remediation objectives
- Three tiers for selecting remediation objectives

Also presented herein is the remedial plan designed to meet the remedial objectives and results that confirm that the remedial action achieved the established objectives. This report follows a SI Report for the Pond Parcel that was submitted to the Illinois EPA on September 14, 2001, on behalf of Peoples Gas. The SI Report included:

• The Rogers Park Sub-Shop Pond Parcel Site Investigation Sampling Data (Burns & McDonnell 2001a)

 The Rogers Park Sub-Shop Pond Parcel Site Investigation Report (SI Report) (Burns & McDonnell 2001b)

1.1 PURPOSE AND ORGANIZATION OF REPORT

The purpose of the ROR/RAP/RACR is to document remediation objectives, present an evaluation of corrective measures proposed to eliminate exposure to constituents of concern, present the corrective measures implemented to achieve the remediation objectives and demonstrate the successful completion of the remediation.

This report is comprised of the following sections:

• Section 1.0 - Introduction

This section describes the purpose and organization of the report, summarizing general site information, including location, environmental conditions, site characterization, and future use of the site.

Section 2.0 – Tier 1 Evaluation Summary

This section summarizes the Illinois EPA Tier 1 evaluation for applicable exposure routes and presents chemicals of interest to be addressed further. The soil ingestion, soil inhalation, soil migration to groundwater, and groundwater ingestion exposure routes that were presented in detail in the *Rogers Park Sub-Shop, Pond Parcel Site Investigation Report* (Burns & McDonnell 2001b) are summarized

• Section 3.0 – Exposure Route Evaluation

This section identifies potential exposure routes and determines whether each route may be excluded from further evaluation based on the presence of source material and other pathway-specific requirements.

Section 4.0 – Remediation Objectives

This section summarizes the final remediation objectives for the Pond Parcel, evaluates all data with respect to the remediation objectives, and sets forth required corrective actions.

Section 5.0 – Remedial Action

This section summarizes the remedial action planned and implemented on the Pond Parcel.

• Section 6.0 - Results

This section demonstrates that removal actions achieved the site remediation objectives.

• Section 7.0 – Special Conditions

This section demonstrates that post remediation monitoring and/or institutional controls are not required.

• Section 8.0 - Conclusions

This section discusses the successful completion of the remediation by compliance with remedial objectives.

Section 9.0 - References

This section presents the references used in this report.

1.2 SITE BACKGROUND

1.2.1 Site Description

The Peoples Gas Light and Coke Company (Peoples Gas) currently owns a 10.2-acre parcel of land located at 6659 North Kedzie Avenue in Chicago, Illinois referred to as the Rogers Park Sub-Shop Facility (formerly referred to as the North Shore Avenue Station). A site location map is presented as Figure 1. The North Shore Avenue Station has recently been subdivided into the following three (3) Parcels for remediation purposes:

- The East Parcel, approximately 3 acres in size, is currently a vacant lot covered by vegetation, an unused paved entrance to the site and a gravel parking area.
- The Pond Parcel, approximately 1.8 acres in size, currently consists of vegetated land and a parking lot.
- The Main Parcel, approximately 5.4 acres in size, currently consists of the operational buildings and parking areas associated with the facility.

This ROR/RAP/RACR specifically addresses the Pond Parcel. The Pond Parcel is located approximately 1,000 feet northeast of the intersection of Albion Avenue and Kedzie Avenue in Cook County, Chicago, Illinois (Figure 1). The site is rectangular in shape, approximately 240 feet by 336 feet. The legal description for the Pond Parcel is as follows:

THAT PART OF LOT 2 (EXCEPT THE WEST 66 FEET THEREOF) IN THE SUBDIVISION OF THE WEST ½ (IN AREA) OF THE SOUTHWEST FRACTIONAL ¼ LYING NORTH OF THE INDIAN BOUNDARY LINE OF SECTION 36, TOWNSHIP 41 NORTH, RANGE 13, EAST OF THE THIRD PRINCIPAL MERIDIAN, IN COOK COUNTY, ILLINOIS, MORE PARTICULARLY DESCRIBED AS FOLLOWS:

COMMENCING AT THE SOUTHEAST CORNER OF SAID LOT 2; THENCE SOUTH 89°51'56" WEST ON THE SOUTH LINE OF SAID LOT 2, 408.81 FEET TO THE POINT OF BEGINNING; THENCE CONTINUING SOUTH 89°51'56" WEST ON THE SOUTH LINE OF SAID LOT 2, 330.00 FEET, MORE OR LESS, TO THE EASTERLY LINE OF KEDZIE AVENUE; THENCE NORTH 01°35'45" EAST OF THE EASTERLY LINE ON KEDZIE AVENUE, 240.00 FEET; THENCE NORTH 89°51'56" EAST, 330.00 FEET; THENCE SOUTH 01°35'45" WEST, 240.00 FEET TO THE POINT OF BEGINNING, ALL IN COOK COUNTY, ILLINOIS

CONTAINING 79.200 SQUARE FEET OR 1.81 ACRES, MORE OR LESS.

1.2.2 Additional Background Information

Hanson Engineers Incorporated (HEI) conducted an investigation for Peoples Gas on the Rogers Park Sub-Shop and prepared a report entitled *Preliminary Site Investigation – North Shore Avenue Station Gas Storage Facility – Chicago, Illinois* dated July 1992. The objective of the

HEI investigation was to determine if there was a potential for impacts associated with the former North Shore Avenue Station. The investigation encompassed 16.2 acres owned by Peoples Gas at that time. The investigation included a review of the environmental setting, historical documents provided by Peoples Gas, Sanborn maps, a water well survey and advancement of two soil borings within the Main and Pond Parcels. The report concluded that below ground portions of the gas storage structures may be present and, if they are present, may contain precipitated tars, unless the tar was removed during demolition of the gas holder (Hanson 1992).

According to the HEI Report, in 1926, the site (Main, East and Pond Parcels) began operating as a manufactured gas facility, the North Shore Avenue Station. A 15-million cubic foot aboveground gas holder, located and removed on the west side of the property, stored manufactured and natural gas until it was dismantled and removed in 1971. (The southern half of the holder was located in the Pond Parcel, with the remainder of the holder located in the Main Parcel). The gas holder was tar sealed until mid-1956 when the sealant was changed to oil. The gas holder was temporarily out of service between April and July 1956 when the holder was repaired and the sealant changed. The interior of the gas holder was steam cleaned and placed back in service July 18, 1956. At this time, a total of 40,000 gallons of tar was removed from two 12,000 gallon buried tar tanks, the northwest holder invert and the tar dam and pump weirs. Also during the 1956 outage, additional tar totaling 152,600 gallons was removed from the base of the gas holder and unspecified locations around the gas holder. The gas holder was disconnected and purged in 1969. Most tar tanks along the holder and the gas holder itself were removed in 1971. Specifications called for the removal of the gas holder and concrete pad, the settling tank, both oil tanks and 7 of 13 tar collection tanks from the property. It is unclear, from the historical records, what happened with the other 6 tar collection tanks. The approximate locations of the former MGP structures are shown in Figure 2.

In 1999 and 2000, Roy F. Weston (Weston) conducted investigation activities in the Pond, Main and East Parcels. Field activities were performed by Weston from December 6, 1999 through January 14, 2000 and July 12 through 14, 2000. Weston advanced six (6) soil borings and collected one (1) surficial soil sample from within the Pond Parcel. The samples collected by Weston were analyzed for Target Compound List (TCL) volatile organic compounds (VOCs), TCL semi-volatile organic compounds (SVOCs), priority pollutant metals, and Synthetic Precipitation Leaching Procedure (SPLP) lead and chromium. Weston noted that visual evidence of impacts were observed at soil borings B-15, B-16 and B-18 at depths less than 9.0 feet below ground surface (bgs). Weston installed four (4) groundwater monitoring wells outside of the Pond Parcel during the investigation. The groundwater samples were analyzed for TCL VOCs, TCL SVOCs and metals.

Burns & McDonnell performed additional site investigation activities on the Pond Parcel on May 1 through 4, 2001 and June 14, 15, and 22, 2001. During the Burns & McDonnell investigation,

nineteen (19) soil borings and six (6) probes were advanced at various locations within the Pond Parcel and within the right-of-way for Kedzie Avenue, directly west of the Pond Parcel, each to a depth of twenty (20) feet bgs. Soil samples were collected from various depths within each soil boring, delivered to an analytical laboratory and analyzed for TCL VOCs, benzene, toluene, ethylbenzene and xylenes (BETX), TCL SVOCs, polynuclear aromatic hydrocarbons (PAHs), Resource Conservation and Recovery Act (RCRA) metals, and cyanide. Certain soil samples were also analyzed for SPLP lead and SPLP chromium. Physical soil testing was also conducted. During SI field activities, odors and visual staining were noted at the following locations: RPM-SB30, RPM-SB61, SP062, SP064, and RPM-SB29A. One (1) groundwater monitoring well was installed inside the Pond Parcel as part of the Burns & McDonnell field investigation.

Groundwater samples were collected from all five (5) groundwater monitoring wells located on and around the Pond Parcel on June 22, 2001. The groundwater samples were collected and analyzed for TCL VOCs, PAHs, RCRA metals, and cyanide.

The soil boring and soil probe locations associated with the SI activities conducted by Weston and Burns & McDonnell are shown on Figure 2. The five (5) groundwater monitoring well locations are shown on Figure 3. The results of the Weston and Burns & McDonnell SI activities were incorporated into *The Rogers Park Sub-Shop Pond Parcel Site Investigation Report*, dated September 2001 (Burns & McDonnell 2001b). This SI Report was submitted to the Illinois EPA on September 14, 2001.

1.3 RECOGNIZED ENVIRONMENTAL CONDITIONS

Based on visual observations during SI field activities, source material was identified at soil boring locations RPM-SB29A, RPM-SB30, RPM-SB61, B-15, B-16, and B-18 and soil probe locations RPM-SP062 and RPM-SP064. Figure 2 shows the boring and probe locations and presents the significant findings on the Pond Parcel. The source material appeared to be confined to limited areas. One area is located in the vicinity of borings RPM-SB61 and RPM-SB30 and probes SP062 and SP064, in the center of the former gas holder. Source material was observed from 8 to 11 feet bgs. Another area, is located in the vicinity of RPM-SB29A, B-15, and B-16, in the area of the former tar tanks. Based on the results of the SI, this area of impacted material did not extend outside of the Pond Parcel, into the Kedzie Avenue right-of-way, but it did extend to the Main Parcel, north of the Pond Parcel. Further detail is presented in Sections 2 and 3 of this Pond Parcel ROR/RAP/RACR.

2.0 TIER 1 EVALUATION SUMMARY

This section summarizes the TACO Tier 1 evaluations as presented in the Pond Parcel SI Report (Burns & McDonnell, 2001b).

2.1 CURRENT AND FUTURE LAND USE

The Pond Parcel, currently vacant land and an enclosed parking area, is zoned M1-1 (restricted manufacturing). A map of zoning for the site and surrounding areas is presented in Figure 3. Surrounding properties consist of residences to the east and south, undeveloped land and the North Shore Channel to the west, and industrial and commercial businesses to the north. The Chicago City limits are located directly west of the Pond Parcel, beyond Kedzie Avenue. Note that a Dominick's grocery store to the north of the Peoples Gas Main Parcel was recently vacated. Buildings to the north of the Main Parcel (formerly owned by CP Clare), have recently been demolished.

The future use of the Pond Parcel is residential development. The area surrounding the site is currently used for residential, commercial, and business purposes. Future plans for the surrounding area are unknown, however they are not expected to change.

2.2 TIER 1 EVALUATION

As presented in the Pond Parcel SI Report (Burns & McDonnell 2001b), soil data was compared to Illinois EPA TACO Tier 1 residential objectives for soil ingestion, soil inhalation and soil migration to Class II groundwater exposure routes. Table 1 presents a summary of constituents detected in at least one sample collected, and a comparison to the Tier 1 objectives for the soil ingestion, soil inhalation and soil migration to Class II groundwater exposure routes. Measured concentrations that exceed the lowest Tier 1 objective are shaded. Constituents that were analyzed for, but not detected in any samples are not presented in the Table 1. As discussed in the Pond Parcel SI, no constituents exceeded the Tier 1 objectives for the ingestion of Class II groundwater exposure route. The following subsections summarize the Pond Parcel SI Report findings.

2.2.1 Soil Ingestion Exposure Route

Soil samples on the site were compared to TACO Tier 1 residential objectives for soil ingestion. Some of the surface soil samples contained VOCs, PAHs, total lead and arsenic at concentrations greater than their respective TACO Tier 1 residential objectives. Benzene was the only VOC that exceeded its Tier 1 screening level in six (6) samples. Benzo(a)anthracene, benzo(b)fluoranthene, benzo(k)fluoranthene, benzo(a)pyrene, chrysene, dibenzo(a,h)anthracene, and indeno(1,2,3-cd)pyrene were the SVOCs that exceeded Tier 1 levels in a limited number of samples. These constituents are PAHs. Inorganic constituents that exceeded Tier 1 levels were lead and arsenic. Lead exceeded the Tier 1 level in six (6)samples. As presented in the Pond Parcel SI Report (Burns & McDonnell 2001b), the statistical 95 percent upper confidence limit

(UCL) for arsenic in site soil was calculated to be 9.007 mg/kg, which is below the TACO metropolitan statistical area concentration (13 mg/kg) for arsenic (the remediation objective). Therefore, arsenic on the site was eliminated from further evaluation.

2.2.2 Soil Inhalation Exposure Route

The Tier 1 inhalation exposure route was evaluated using all soil samples that were collected during the SI. Of sixty-one (61) samples evaluated, benzene exceeded the Tier 1 level for inhalation in eight (8) samples at depths less than 8 feet bgs.

2.2.3 Soil Migration to Groundwater Exposure Route

The Tier 1 soil migration to groundwater exposure route was evaluated using all soil samples collected from above the water table. Based on a review of the data and the soil boring logs, the presence of a continuous shallow aquifer has not been established on the Pond Parcel. Weston reported difficulty in collecting groundwater samples from the two monitoring wells (MW03 and MW04) due to slow recharge. Also, Weston had difficulty obtaining static water level readings, due to the slow rate of recharge. However, even if the groundwater was continuous and not the result of perched conditions, the unconfined water beneath the site would not meet the definition of a Class I aquifer, as defined in 35 IAC, Subtitle F, Chapter I, Part 620 – Groundwater Quality, Section 210. Grain size testing performed on the silty clay and a soil permeability test support this conclusion. At best, the water would be considered a Class II source of groundwater, as defined in the regulations. Therefore, as a conservative approach, soil analytical results from all samples collected from above the water table were compared to Tier 1 levels pertaining to Class II groundwater.

Toxicity criteria in Appendix B, Table A of TACO for metals and cyanide are only applicable to TCLP or SPLP data, and analyses were for total concentrations for many of the constituents/samples. Therefore, pH dependent Tier 1 values were used for metals (Appendix B, Table D of TACO), unless SPLP data was obtained. Measured values for pH ranged from 7.6 to 8.1. The Illinois EPA Table D in Appendix B of TACO, where values are presented for pHs up to 9.0 was used, unless SPLP data was available. No pH dependent Tier 1 value was available for chromium in Class II groundwater, so the Class I groundwater value was selected for chromium.

No pH dependent Tier 1 value is available for lead. The background concentrations for lead, presented for counties within metropolitan statistical areas (MSA) in Appendix A, Table G of TACO, is 36 mg/kg. The site is currently zoned for restricted manufacturing use. Because the future use of the site is for residential development, the published MSA background concentration will not be used as the Tier 1 value for this pathway. However, several of the soil samples were analyzed for SPLP lead. Therefore, lead was evaluated against the corresponding toxicity criteria in Table A, Appendix B of TACO, and not the published background value in Appendix A, Table G of TACO.

Of the sixty-one (61) samples evaluated, benzene, ethylbenzene, and toluene were the only VOCs that exceeded Tier 1 levels in a limited number of samples less than 14 feet bgs.

Benzo(a)anthracene and dibenzo(a,h)anthracene were the SVOCs that exceeded Tier 1 levels.

Chromium was the only metal that exceeded Tier 1 level in four (4) shallow soil samples collected.

2.2.4 Groundwater Ingestion Exposure Route

Constituent concentrations in groundwater were evaluated for the groundwater ingestion exposure route using TACO Class II levels. Of the five (5) groundwater samples collected and analyzed in June 2001, no samples exceeded the Class II levels for the Class II groundwater ingestion exposure route.

3.0 EXPOSURE ROUTE EVALUATION

Remediation objectives do not need to be determined for a specific exposure route if it can be demonstrated that the exposure route does not exist based on criteria established in Subpart C of TACO (Illinois EPA 2001). The extent of contamination of COCs must be characterized and source material must not exist in order to exclude an exposure route. In addition, pathway-specific requirements must be met for each exposure route.

3.1 SOURCE MATERIAL EVALUATION

During SI field activities, odors and visual staining were noted in borings RPM-SB29A, RPM-SB30, RPM-SB61, B-15, B-16, and B-18 within the Pond Parcel property boundary. Impacted material was observed at 2.0 to 12.0 foot depth interval at boring RPM-SB29A. At boring RPM-SB30, impacted material was observed at 2.0 to 9.0 feet bgs. Tar was observed at borings B-15, B-16, and B-18 at depths less than 9.0 feet bgs. At boring RPM-SB61, visual staining and strong odors were observed from 3 to 11 feet bgs with PID readings ranging from 0.3 parts per million (ppm) to 367 ppm. During SI field activities, six (6) probes were advanced for visual observations only (RPM-SP062, RPM-SP063, RPM-SP064, RPM-SP065, RPM-SP066, RPM-SP069). Probes RPM-SP062 and RPM-SP064 were described as containing odors and staining at seven (7) to eleven (11) feet bgs. Probes RPM-SP063, RPM-SP065, RPM-SP066, and SP069 were described as containing a slight odor to no odor. This information was used to create the significant findings map (Figure 2).

Figure 2 shows two areas impacted by source material on the Pond Parcel. One area, is located in the vicinity of borings RPM-SB61, RPM-SB30, and B-18 and probes SP062 and SP064 and contains source material from 8.0 to 11.0 feet bgs, based on visual observation. Another area, is located in the vicinity of RPM-SB29A, B-15, and B-16 and contains source material from 7.0 to 8.0 feet bgs. The area of source material was suspected of extending outside of the Pond Parcel, into the Main Parcel, but the investigation indicated that it did not extend to the west, into the right-of-way to Kedzie Avenue. Because the existence of source material was confirmed, further evaluation was necessary.

The removal of source material is discussed in detail in Section 5.4 of this report.

3.2 SOIL INGESTION EXPOSURE ROUTE

As discussed in Section 2.2.1, soil data was compared to Illinois EPA TACO Tier 1 residential objectives for soil ingestion exposure route. Tier 1 levels were exceeded for benzene, benzo(a)anthracene, benzo(b)fluoranthene, benzo(k)fluoranthene, benzo(a)pyrene, chrysene, dibenzo(a,h)anthracene, indeno(1,2,3-cd)pyrene, and lead. Therefore, the soil ingestion exposure route will not be eliminated from further evaluation.

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3.3 SOIL INHALATION EXPOSURE ROUTE

Tier 1 inhalation levels pertaining to the residential population were exceeded for benzene. Therefore, the soil inhalation exposure route will not be eliminated from further evaluation.

3.4 SOIL MIGRATION TO GROUNDWATER EXPOSURE ROUTE

As discussed in Section 2.2.3, Tier 1 screening levels were evaluated for soil migration to groundwater using Class II screening levels. Tier 1 levels were exceeded for benzene, ethylbenzene, toluene, benzo(a)anthracene, dibenzo(a,h)anthracene, and chromium. Therefore, the soil migration to groundwater exposure route will not be eliminated from further evaluation.

3.5 GROUNDWATER INGESTION EXPOSURE ROUTE

Of the five (5) groundwater samples collected for this SI, no samples exceeded the Tier 1 objectives for ingestion of Class II groundwater. No further evaluation is necessary.

4.0 REMEDIATION OBJECTIVES

This section identifies remediation objectives for the Rogers Park Sub-Shop Pond Parcel site. Site remediation objectives were developed using TACO Tier 1 evaluations summarized in Sections 2.0 and 3.0, and as presented in Table 1. Remediation objectives only need to be established for those constituents that exceeded the residential Tier 1 levels. Also, as required by regulation, source material must be removed. A summary of the remediation objectives is presented in Table 2.

4.1 REMEDIATION OBJECTIVES

The following remediation objectives, pertaining to soil on the Rogers Park Sub-Shop Pond Parcel site have been established:

Remove source material, and remove soil at varying depths that exceed TACO Tier 1 residential remediation objectives. Specifically, soil must not exceed the following criteria:

ene	0.17 mg/kg
benzene	19 mg/kg
ene	29 mg/kg
o(a)anthracene	0.9 mg/kg
o(b)fluoranthene	0.9 mg/kg
o(k)fluoranthene	9 mg/kg
o(a)pyrene	0.09 mg/kg
sene	88 mg/kg
nzo(a,h)anthracene	0.09 mg/kg
no(1,2,3-cd)pyrene	0.9 mg/kg
lead	400 mg/kg
Plead	0.1 mg/L
chromium	28 mg/kg
P chromium	1.0 mg/L
	benzene

These remediation objectives are intended to prevent exposure to source material and to benzene, ethylbenzene, toluene, several PAHs, lead, and chromium present in concentrations above remediation objectives pertaining to a residential population, and to obtain a Comprehensive No Further Remediation Letter, as identified in Subpart F of 35 IAC Part 740, based on a residential property classification. Note that while SPLP lead and SPLP chromium results were well below the Tier 1 level pertaining to soil migration to groundwater, not all samples were analyzed for SPLP lead and chromium during the investigation. Therefore, remediation objectives will include SPLP lead and SPLP chromium.

5.0 REMEDIAL ACTION

This section identifies remedial actions proposed and implemented on the Pond Parcel to achieve the remediation objectives established in Section 4.0 of this ROR/RAP/RACR. The remedy for the site is to excavate and dispose of impacted soil.

Remedial action activities consist of the following main components:

- Site preparation;
- Waste characterization;
- Air monitoring during remediation;
- Excavation, stockpiling and off site disposal of impacted surface soils, managed as special waste, and management of decontamination water;
- Confirmation soil samples;
- Management of potential stormwater runon/runoff, and soil erosion and sediment control; and
- Demobilization and site restoration.

Remedial activities on the Pond Parcel took place between June and October 2001. Photographs documenting field activities are presented in Appendix A.

5.1 SITE PREPARATION

Site preparation activities began in May 2001, as part of ongoing remediation activities in adjacent Parcels. Fabric was attached to the existing fence along the north, west and south sides of the Pond and South Parcels in order to help control potential off site dust migration during excavation. The fabric was placed in a manner that allowed it to act as a silt fence as well. Fabric, 8 feet in length, was attached at the top and middle of the fence and extended to the ground surface.

Buried utility lines were identified by exposing them during hand excavation activities and they were left undisturbed. Previously unidentified buried utilities/structures in surface soil were encountered during remediation work, identified as abandoned lines, and removed as necessary. Utilities were deemed abandoned because they were no longer in service.

The gas holder and tar tank excavation areas, based on the depth of excavation, were laid out prior to excavation activities. Additionally, the confirmation sampling grids were identified and marked prior to excavation.

A sheet pile wall earth retention system was installed in July 2001 along a portion of the western boundary of the Pond Parcel. The sheet pile wall was 80 feet long by 25 feet deep and its location is shown on Figures 4, 5, and 6. Excavation depths up to 12 feet were planned in the area along Kedzie Avenue, and Chicago Department of Transportation (CDOT) requested that the sidewalk and the right-of-

way not be disturbed during excavation activities. Since side sloping was not allowed, the sheet pile wall was installed before excavation.

The CDOT sheet pile wall approval required damage control monitoring. The damage control monitoring consisted of twenty (20) settlement points and installation of an inclinometer, which measured the movement of the ground outside of the sheet pile wall. The twenty (20) settlement points were initially measured on July 20, 2001, prior to installation of the sheet pile wall. The settlement points were measured weekly until September 24, 2001. The inclinometer was installed on July 26, before any excavation occurred, and weekly measurements were collected from July 27 through September 21, 2001. The data collected from the weekly monitoring is retained on file at CDOT and Burns & McDonnell. Due to the collected data and completion of backfill on the site, CDOT requires future measurements to be collected at the end of October and November 2001.

The sewer line along Kedzie Avenue from the outfall on North Shore Avenue to Manhole 1122 was inspected in July 2001 in order to evaluate the condition of the line prior to installation of the sheet pile wall. The sewer inspection was requested by CDOT as part of the damage control monitoring requirements for installation of the sheet pile wall earth retention system. The sewer line was inspected again in October 2001, to evaluate the condition of the line after sheet pile wall installation, excavation, and backfill activities. No damage was noted.

5.2 WASTE CHARACTERIZATION

Prior to excavation activities, waste characterization samples were collected for analyses. Composite soil sample RPS-WC1 was required by Waste Management to dispose of the material in the CID landfill, in Chicago, Illinois. The sample was collected on April 23, 2001 by Burns & McDonnell and submitted to Test America Inc. in Bartlett, Illinois under proper chain-of-custody. Sample RPS-WC1 was analyzed for pH, TCLP metals, TCLP pyridine, TCLP hexachlorobenzene, polychlorinated biphenols (PCBs), flashpoint, reactive sulfide, paint filter, and LN Parameters (chemical oxygen demand, fats, oil and grease, ammonia nitrogen, pH, total cyanide, and oxidizing agents).

On May 2, 2001, Burns & McDonnell collected a grab soil sample (RPM-SB61-005) from the Rogers Park Pond Parcel and submitted it to STAT Analysis Corporation (STAT) in Chicago, Illinois under proper chain-of-custody. Analyses for sample RPM-SB61-005 were required by Heritage Environmental Services, LLC (Heritage); to dispose of the source material in the Roachdale Subtitle C Landfill, in Roachdale, Indiana. Sample RPM-SB61-005 was collected in an area containing source material. The sample was analyzed for TCLP VOCs, TCLP SVOCs, TCLP Metals, flashpoint, pH, paint filter, reactive sulfide, total solids, ash content, total cyanide, total phenol, extractable organic halides (EOX) and water reactivity. Analytical results of the waste characterization samples (RPS-WC1 and RPM-SB61-005) are presented in Appendix B.

5.3 AIR MONITORING

Air monitoring for BTEX and PAHs (as dust) was performed in an effort to ensure that residents of the surrounding community and onsite workers were not exposed to airborne compounds that may be emitted during remedial activities. Air monitoring was conducted in accordance with the procedures described below and documentation sheets are included in Appendix C.

5.3.1 Real-Time Air Monitoring

Air monitoring was performed around the site perimeter during management of impacted media. PAH constituents, as dust, were monitored using a MiniRAM, a hand held dust collection device. A MiniRAE 2000 Photo Ionization Detector (PID) was used to determine real-time organic vapor concentrations. Organic vapor and dust monitoring were done regularly (approximately every hour) during the workday along the fence line. Readings were taken mainly in the north, south, east, and west portions of the site in a rotating fashion. Appendix F contains the corresponding equipment calibration sheets, presents real-time air monitoring results during remedial activities, and corrective action sheets.

The action level for organic vapor of 0.2 parts per million (ppm) was rarely exceeded. On July 26, 2001, PID readings exceeded the action limit of 0.2 ppm inside the gas holder excavation at approximately 12 feet bgs. Excavation was slowed and respirators were required when working in the gas holder excavation area. On August 2 and 3, 2001, PID readings exceeded 0.2 ppm around the stockpile near the gas holder excavation. Excavation was slowed, respirators were required in the gas holder excavation area, and the waste was covered with plastic sheeting. On August 6, 7, and 8, 2001, PID readings exceeded 0.2 ppm around the waste near the gas holder excavation, and a Draeger benzene tube was used to measure ambient air benzene levels. All ambient benzene level results from the Draeger tubes were 0 ppm.

The action level for dust on the site was $150 \,\mu\text{g/m}^3$ for the 24 hour average concentration of particulate matter less than 10 micrometers, as specified in 40 CFR 50.6. Dust levels exceeded the action level on August 6, 2001. A water truck was used to spray the area north of the Pond Parcel in order to minimize the dust.

Monitoring of onsite worker health and safety is addressed in a separate Site Health and Safety Plan. The Site Health and Safety Plan (HASP) was written specifically to address the chemical and physical hazards specific to the site (Burns & McDonnell 2001c). All persons working on the site were required to read, sign and conform to the requirements of the health and safety plan.

5.3.2 Ambient Air Monitoring

Ambient air monitoring was performed using Summa® canisters, which were analyzed for BTEX using USEPA Method TO-14A. The canisters were placed at north, south, east and west stations to provide representative results of the site (Figure 5). The canisters were located at a height of 8 to 9 feet above the ground surface. The canisters were not located in the direct vicinity of any permanent solid obstructions. Pre-excavation sampling was conducted from July 20 through July 24, 2001. Excavation air sampling

was conducted from July 25 through September 26, 2001. The analytical results and the meteorological data associated with the pre-excavation, and excavation air samples are shown on Tables 3, 4 and 5.

The Summa® canisters were analyzed for BTEX in a three-day cycle as shown below:

Work Day	Locations Sampled
1	4 (All sampling stations)
2	1 (Collected from the downwind station)
3	1 (Collected from the downwind station)
4n	Repeat as indicated for Work Days 1 through 3

All of the canisters were analyzed every third monitoring day. Only the prevailing downwind air samples were analyzed on the other two days of each cycle. The Summa® canisters were placed into operation at approximately 6:30 AM, before work commenced, and operated until all site work ceased for the day. None of the action levels for benzene, toluene or ethylbenzene (39, 2,211 or 4,883 parts per billion by volume (ppbv), respectively) were exceeded. Appendix D contains the action level calculations. An allowable concentration on the receptor was calculated and then allowable vapor concentrations were calculated.

A portable meteorological station was set up onsite to monitor barometric pressure, wind speed and wind direction. The meteorological data was logged using an electronic data logger. Table 3 contains the meteorological data collected during excavation activities. The prevailing wind direction was determined by the meteorological station and used to designate the predominant downwind air monitoring location(s) for each air-sampling event.

As discussed above, PAH (as dust) monitoring was performed on a continuous basis at each stationary monitoring location using a hand held dust collection device (MiniRAM).

5.4 EXCAVATION

Excavation of the impacted soils was conducted at specified depths across the site. Based on the SI findings, excavation on the Pond Parcel was planned from depths of six (6) inches to more than ten (10) feet. Two areas, the former tar tank and the former gas holder, were planned to be excavated to depths greater than 10 feet bgs. Figure 4 details the excavation layout plan.

During excavation activities on the Pond Parcel, historical structures were uncovered. Some areas required deeper excavation than anticipated in order to achieve the remedial objectives based on the confirmation samples that were collected during excavation (see Figure 5) and in order to remove historical structures. All excavation activities on the Pond Parcel fall into one of the following categories: gas holder excavation, tar tank excavation, tank invert and valve/wier box excavation, miscellaneous steel tar pipe excavation, and surface soil excavation. As presented above, air monitoring was conducted during all excavation activities.

5.4.1 Gas Holder Excavation

Based on the findings in the SI, excavation of the gas holder began in July 2001. Coal tar saturated material was observed in the gas holder excavation at depths greater than three (3) feet bgs. Excavation was performed to a depth of approximately 12 feet bgs, until visually clean native clay was observed at the bottom of the excavation. The top three (3) feet of soil excavated from the gas holder area was considered special waste and was often collected and temporarily stockpiled before being loaded into end-dump trailers and transported to the Waste Management CID landfill in Chicago, Illinois. Trucking occurred between 6 am and 3 pm. Some pre-loading occurred in the afternoon for transport the following day. Some of the heavily impacted material excavated at depths greater than six (6) feet bgs was considered to be a different waste stream than the material being transported to CID. This waste was segregated and loaded into lined end-dump trailers and transported to the Heritage Roachdale Sub-Title C landfill in Roachdale, Indiana. It was disposed of as non-hazardous special waste, although it was manifested as hazardous waste in Illinois. Each manifest clearly stated the following in Box J:

This consignment is not hazardous waste in the State of Indiana per the Indiana Department of Environmental Management correspondence dated January 21, 2001 to Regina Mahoney from Leah Fouty and the American Battery Recyclers, Inc. et al vs. USEPA (April 21, 2000)

5.4.2 Tar Tank Excavation

Based on the findings in the SI, excavation of the tar tank area began in July 2001. Prior to excavation, a sheet pile earth retention system was installed to prevent damage to Kedzie Avenue located directly west of the tar tank excavation area. Coal tar saturated material was observed in the tar tank excavation area at depths greater than three (3) feet bgs. Excavation was performed to a depth of approximately 12 feet bgs, until visually clean native clay was observed at the bottom of the excavation. The top three (3) feet of soil excavated from the tar tank area was managed as special waste and the more heavily impacted soil, generally excavated from the deeper area, was manifested as hazardous waste but disposed of in the Heritage Roachdale Subtitle C facility in Indiana as special waste as discussed in Section 5.4.1.

5.4.3 Surface Soil Excavation

Based on findings in the SI, the surface soil excavation in the southern portion of the Pond Parcel began in June 2001. The surface soil excavation was designed to remove soil of six (6) inches to three (3) feet bgs from designated areas as shown in Figures 4 and 5. Based on confirmation composite samples discussed in Sections 5.6 and 6.1.1, some areas required additional excavation. Therefore, the southern portion of the Pond Parcel was excavated from six (6) inches to more than ten (10) feet bgs. The soil was managed as special waste and was disposed of at the CID facility.

5.4.4 Valve/Wier Box Excavation

During the surface soil excavation, the concrete holder foundation was discovered. Three (3) holder invert valve/wier boxes were uncovered along the concrete holder foundation. Only one (1) valve/wier box was located on the Pond Parcel. The structures were at least 20 feet wide by 30 feet long by 12 feet deep and housed abandoned steel and cast iron piping and valves that were 4 to 5 feet in diameter. The

boxes were located in the northwest, northeast, and southeast portion of the foundation. Excavation of the holder invert valve/wier boxes began in September 2001. Oily water and sludge were present in the valve/wier boxes. The liquid was collected, managed, transported and disposed of as hazardous waste at either Waste Management CID Bioplant in Calumet City, Illinois or Beaver Oil Company, Inc. in Hodgkins, Illinois. After removal of liquids, the valve/wier boxes were fully excavated to a depth of 12 feet bgs. A 24-inch cast iron outlet pipe was removed at a depth of 5 feet bgs around the southeast valve/wier box. The piping in the valve/wier boxes was collected, decontaminated, and transported to United Scrap in Cicero, Illinois. The sludge and soil within and surrounding the boxes was collected into roll-off boxes, manifested as hazardous waste, and disposed of in the Subtitle C facility in Indiana as special waste.

Excavation around the concrete gas holder foundation began in September 2001, because the soil was visually impacted. The section between the northwest and southeast valve/wier boxes was excavated to 4 feet bgs and the concrete was then broken up. The section between the southeast and northeast valve/wier boxes was excavated to 5 feet bgs and the concrete holder foundation was left in tact. All visually impacted material around the foundation was excavated and properly disposed of as special waste.

5.4.5 Miscellaneous Steel Tar Pipe Excavation

During excavation of the tar tank area, a 2-inch steel tar pipe was discovered (as shown on Figure 6). The pipe extended approximately 150 feet south from the tar tank excavation then turned at a right angle and extended approximately 300 feet west. Excavation of the pipe began in September 2001. The pipe was excavated to 3 feet bgs and removed. The soil surrounding the pipe was disposed of as special waste.

Figure 6 shows the final excavation map. Construction activities were documented. Daily reports of excavation activities, activity logs and other pertinent data were generated and maintained. Appendix E contains a copy of the daily reports.

5.5 SOIL AND WATER REMOVAL

A total of 25,020 tons of special waste was disposed of in the CID facility, approximately 1,137 tons of waste was disposed of in the Subtitle C facility in Indiana as special waste, and 97,037 gallons of wastewater was removed from the site, manifested and transported and disposed of at either CID or Beaver Oil. The waste totals are a combination of the Pond and Main Parcels, because the source material straddled the boundaries between the Parcels and all excavation work was done concurrently. Appendix F contains the manifest logs for special waste, hazardous waste, and hazardous liquid. Remedial action manifests and weight tickets are included in a separately bound book, entitled *Remedial Action Manifests*, *Weight Tickets*, and Summary of Disposal Quantities (Burns & McDonnell 2001d).

5.5.1 Soil Manifested as Special Waste

The majority of the soil collected from both the Pond and Main Parcels was characterized as special waste, with the exception of some material excavated deeper than 3 feet bgs with visible contamination in the vicinity of source material encountered in the tar tank and gas holder excavation areas, and the

valve/wier boxes. Special waste soil was loaded into end-dump trucks, manifested as special waste, and transported to Waste Management's CID facility in Chicago, Illinois. The total volume of special waste and debris removed from the area was approximately 25,020 tons.

5.5.2 Soil Manifested as Hazardous Waste in Illinois

Some material removed deeper than 3 feet bgs in the tar tank area, gas holder area, and valve/wier box excavation areas was characterized as RCRA hazardous waste in the State of Illinois based on the waste characterization sample RPM-SP61-005. This sample had a TCLP benzene concentration greater than the regulatory level of 0.5 mg/L. The material was loaded into lined end-dump trucks or roll-off boxes, manifested as hazardous waste, and transported to the Heritage Roachdale Subtitle-C Landfill in Roachdale, Indiana. Approximately 1,137 tons of this material was disposed of as special waste. Each manifest clearly stated the following in Box J:

This consignment is not hazardous waste in the State of Indiana per the Indiana Department of Environmental Management correspondence dated January 21, 2001 to Regina Mahoney from Leah Fouty and the American Battery Recyclers, Inc. et al vs. USEPA (April 21, 2000).

5.5.3 Waste Water

As needed to facilitate excavation activities, stormwater runon/runoff was pumped from the tar tank and gas holder excavation areas. Water pumped from these areas was temporarily stored in an onsite frac tank and then transported offsite to the Waste Management CID Bioplant in Calumet City, Illinois or Beaver Oil Company, Inc. in Hodgkins, Illinois for treatment. During the excavation of the three valve/wier boxes, oily water was present inside of the boxes. The water contained inside of the valve/wier boxes was removed via vacuum truck and transported offsite to the above mentioned facilities. Water collected from the tar tank excavation, gas holder excavation, and the valve/wier boxes was not sampled during excavation activities, but was conservatively assumed to be hazardous for disposal purposes. One sludge sample (RPM-WCC) was collected from the southeast valve/wier box and the results were used to generate Beaver Oil Company Waste Survey Forms. Appendix E contains the Chain of Custody for sample RPM-WCC and the water survey forms from Beaver Oil Company. A total of 97,037 gallons was collected from the frac tank and valve/wier boxes.

5.5.4 Additional Waste

During excavation, piping and valves in the valve/wier boxes were removed. The piping and valves were made of steel and cast iron and were decontaminated and transported off site to United Scrap in Cicero, Illinois. Appendix B contains the United Scrap Drivers Ticket.

During excavation of the tar tank and gas holder areas and during decontamination of the valve/wier boxes, the workers were personal protective equipment (PPE). The PPE and debris (paper/plastic) was stored in 55-gallon drums. The generated waste was transported offsite to the Michigan Disposal Waste Treatment Plant in Belleville, MI in two (2) 55-gallon drums. Appendix B contains the waste characterization report submitted to the Michigan Disposal Waste Treatment Plant.

5.6 CONFIRMATION SOIL SAMPLES

Confirmation soil sampling was performed in order to verify that soil exceeding TACO Tier 1 residential screening levels was removed. Confirmation samples were analyzed for either BTEX, styrene, PAHs (8270 SIM), total and SPLP beryllium, total and SPLP chromium, and total and SPLP lead. The results were compared to Tier 1 residential screening levels (remediation objectives specified in Section 4.1). If measured concentrations exceeded the remediation objectives, the areas from which they were collected were excavated further. Once this was complete, another confirmation sample was taken. If measured concentrations exceeded the Tier 1 remediation objectives in the tar tank or gas holder excavations, the locations were excavated an additional 6 inches, prior to collection of another grab sample. This process continued until the remediation objectives were achieved. Confirmation sampling locations are detailed on Figure 5.

Confirmation composite samples were collected in the southern portion of the Pond Parcel. This area was divided into 1/8 acre plots from which composite confirmation samples were collected. Based on the size of the site, ten (10) areas were delineated. The initial composite samples were analyzed for PAHs, total and SPLP beryllium, total and SPLP chromium, and total and SPLP lead. Certain areas required additional excavation after initial confirmation sample results were obtained. These areas were excavated further and additional confirmation samples were collected and analyzed for PAHs, with the exception of one sample that was analyzed for PAHs and SPLP lead. Table 6 presents the results of confirmation sampling.

Confirmation grab samples were collected in the tar tank and gas holder excavations. In the tar tank excavation, the side walls were sampled at four (4) locations. At each location, upper and lower samples were collected at depths of approximately 3.0 feet bgs and 8.0 feet bgs, respectively. One (1) grab sample was collected in the bottom center of the excavation at a depth of approximately 12 feet bgs. In the gas holder excavation, the side walls were sampled at eight (8) locations. At each location, upper and lower samples were collected at depths of approximately 3.0 feet bgs and 8.0 feet bgs, respectively. One (1) grab sample was collected in the bottom center of the excavation at a depth of approximately 12 feet bgs. The initial grab samples were analyzed for BTEX, styrene, PAHs, total and SPLP lead. Certain areas (RPM-CSH-06 and RPM-CSH-07) required additional excavation after initial confirmation sample results were obtained. These areas were excavated further and additional confirmation samples were collected and analyzed for BTEX, styrene, and PAHs (See Table 6).

Three (3) confirmation grab samples were collected around the southeast valve/wier box 24-inch cast iron pipe outlet, as shown on Figure 6. Samples RPM-N-Pipe, RPM-S-Pipe, and RPM-B-Pipe were collected at depths of approximately 2 feet bgs, 2 feet bgs, and 5 feet bgs, respectively. The initial grab samples were analyzed for BTEX, styrene, PAHs, total and SPLP lead.

Confirmation samples were sent to STAT. Analytical data is included in Appendix G.

5.7 POTENTIAL STORMWATER RUNON/RUNOFF AND SOIL EROSION AND SEDIMENT CONTROL

Erosion and sediment controls were implemented during construction activities including:

- Sequenced construction;
- Maintenance of erosion and sediment controls (silt fences);
- Installation of a sheet pile wall earth retention system;
- Construction of berms around the excavations;
- Excavated soil from the staging area was loaded onto trucks as quickly as possible; and
- Staged soils that were left on site overnight were compacted and covered with tarps.

Routine inspections of erosion and sediment control features were conducted on a daily basis, after each rainfall and during periods of extended rainfall. Repairs, if necessary, were made immediately.

5.8 BACKFILLING

Backfilling was used on the Pond Parcel in order to fill in the excavated holes. Backfilling to grade occurred in the area of the sheet pile wall. The site was not fully restored due to the future plans to sell and then develop the property. Figure 6 shows a summary of the completed backfilling.

5.8.1 Gas Holder Excavation

Backfilling of the gas holder began in August 2001. The gas holder was backfilled with 3-inch crushed concrete up to a depth of approximately 3 feet bgs. A fabric liner was then placed on top of the crushed concrete and CA-6 (crushed concrete) was placed above the stone to a depth of approximately 5-feet bgs. Once the fill was in place it was leveled.

5.8.2 Tar Tank Excavation

The tar tank excavation was backfilled with 3-inch crushed concrete to a depth of approximately 6 feet bgs. The CA-6 stone was placed at a depth of 6 inches above the ground surface in the western half of the excavation in order to provide support for the sheet piling which was left in place. However, in the eastern half of the excavation, only 3 feet of CA-6 stone was placed above the fabric. Once the fill was in place it was leveled.

5.8.3 Valve/Wier Box Excavation

Backfilling of the valve/wier boxes began in August 2001, including the one (1) valve/wier box contained on the Pond Parcel. Crushed concrete from the gas holder wall was placed at a depth of approximately 2 feet, on top of which was placed 5 feet of 3-inch crushed concrete. Five feet of CA-6 stone was then used to completely fill the valve/wier boxes. The northwest and northeast valve/wier boxes were covered with asphalt, because they are located directly in the company parking lot.

5.8.4 Miscellaneous Steel Tar Pipe Excavation

The 2-inch steel tar pipe excavation backfilling began in September 2001. Similar to the valve/wier boxes, the backfilling consisted of a 2 foot bottom layer of crushed concrete from the gas holder wall, a

middle 5 foot layer of 3-inch crushed concrete covered with fabric, and a top 5 foot layer of CA-6. This excavation was also completely filled.

5.9 DEMOBILIZATION AND SITE RESTORATION

After completion of soil removal activities, the following cleanup and site restoration activities were performed:

- Decontamination of potentially impacted equipment; and
- Removal of temporary construction trailer.

6.0 RESULTS

This section presents all sampling results, which demonstrate that all remedial objectives have been met.

6.1 CONFIRMATION SAMPLING

Confirmation sampling was done in accordance with the remedial objectives described in Section 4.0 of this report in order to confirm that the objectives were met. Table 6 summarizes the confirmation sampling results and the site-specific remedial objectives. Certain areas required additional excavation after initial confirmation sample results were obtained. These areas were excavated further and additional confirmation samples were collected and analyzed. Excavation continued until remediation objectives were met. Figure 6 is an as-built excavation map, showing the areas of confirmation sampling. Appendix G contains the soil analytical data.

6.1.1 Composite Samples

The majority of the first round of composite confirmation samples were below the site-specific remediation objectives with the exception of areas RPP-CS02, RPP-CS04, RPP-CS07, and RPP-CS08.

- Confirmation sample RPP-CS02-001 barely exceeded the SPLP lead remediation objective of 0.1 mg/L at a concentration of 0.117 mg/L. The SPLP lead detection is suspect, because the total lead concentration is significantly lower than typical samples that exceed SPLP lead. Also, the sample was collected in the area of an abandoned steel pipe that was subsequently excavated and removed. Therefore, further excavation and removal in the area occurred, and the result is no longer valid.
- Area RPP-CS04 required additional sampling due to exceedences of SPLP lead, benzo(a)anthracene, benzo(b)fluoranthene, benzo(a)pyrene, and dibenzo(a,h)anthracene. Four (4) confirmation samples were collected in area RPP-CS04 until the results were below the remedial objectives. Remedial objectives were met by sample RPP-CS04-004 that was collected at a depth approximately 10 feet bgs.
- Area RPP-CS07 required additional sampling due to exceedences of benzo(a)anthracene, benzo(b)fluoranthene, benzo(a)pyrene, and dibenzo(a,h)anthracene. Three (3) confirmation samples were collected in area RPP-CS07 until the results were below the remedial objectives. Remedial objectives were met by sample RPP-CS07-003 that was collected at a depth of approximately 1.5 feet bgs.
- Area RPP-CS08 required additional sampling due to exceedences of benzo(a)pyrene. Three (3) confirmation samples were collected in area RPP-CS08 until the results were below the remedial

objectives. Remedial objectives were met by sample RPP-CS08-003 that was collected at a depth of approximately 3 feet bgs.

6.1.2 Grab Samples

All confirmation grab samples collected in the tar tank excavation, gas holder excavation, and southeast valve/wier box 24-inch cast iron pipe outlet excavation were below the residential remedial objectives, with the exception of two sample locations located inside of the gas holder excavation. Sample RPM-CSH-06U exceeded benzo(a)anthracene and benzo(a)pyrene. Sample RPM-CSH-07U exceeded benzene only. These two (2) upper sample locations are located along the north side of the gas holder excavation and were excavated an additional 6 inches and resampled. The second round of samples (RPM-CSH-06U-02 and RPM-CSH-07U-02) collected from the two areas were below the remedial objectives.

6.2 AIR SAMPLING

Ambient air monitoring results confirm that removal activities did not present adverse health effects for nearby residents. Analytical results show that the allowable concentration for BTEX constituents were not exceeded during handling of impacted material. Air monitoring results are presented in Appendix G.

7.0 SPECIAL CONDITIONS

In accordance with 35 IAC Part 742 and Section 742.1015, Subpart J, no special conditions apply to the Rogers Park Sub-Shop Pond Parcel site. The remedial action is a final action, and a Comprehensive No Further Remediation Letter is anticipated. No institutional controls or monitoring are required.

8.0 CONCLUSIONS

The remedial objectives for the Rogers Park Sub-Shop Pond Parcel site in Section 4.0 were met as a result of the excavation activities described in Section 5.0. All soil that exceeded remediation objectives was removed from the Pond Parcel. Remaining soil was confirmed to meet remediation objectives. No special conditions are required to be implemented on the site.

The data presented within this ROR/RAP/RACR is accurate and complete. No further remedial action activity is necessary on the Pond Parcel and a Comprehensive No Further Remediation letter is anticipated.

9.0 REFERENCES

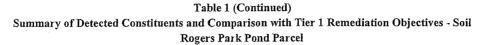
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TABLES

Table 1
Summary of Detected Constituents and Comparison with Tier 1 Remediation Objectives - Soil
Rogers Park Pond Parcel

	1			10					
	1	Tier 1		1	Location and Dep				
	1	Remediation	n -	RPM-SB21-001	RPM-SB21-002	RPM-SB21-003	RPM-SB21-004	RPM-SB22-00	
	L	Objectives		0-1'	1-2'	2-3'	8-10'	0-0.5'	
Compound/Analyte	Soil to GW	Ingestion	Inhalation	WT~NE	WT~NE	WT ~ NE	WT - NE	WT ~ 7'	
	-			TCL VOCs (mg/k	:g)				
Benzene	0.17	22	0.8	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U	
Carbon Disulfide	160	7,800	720	NA	NA	NA	NA	NA	
Ethylbenzene	19	7,800	400	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	
Styrene	18	16,000	1,500	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	
Toluene	29	16,000	650	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	
Xylenes (total)	150	160,000	410	0.005 U	0.005 U	0.005 U	0.005 U	0,006	
			,	I'CL SVOCs (mg/l					
Acenaphthene	2,900	4,700		0.025 U	0.025 U	0.025 U	0.025 U	0.033	
Acenapthylene				0.025 U	0.025 U	0.025 U	0.025 U	0.710	
Anthracene	59,000	23,000		0.025 U	0.025 U	0.025 U	0.025 U	0.223	
Benzo[a]anthracene	8	0.9		0.040	0.025 U	0.025 U	0.025 U	0.663	
Benzo[b]fluoranthene	25	0.9		0.030	0.025 U	0.025 U	0.025 U	0.435	
Benzo[k]fluoranthene	250	9		0.030	0.025 U	0.025 U	0.025 U	0.161	
Benzo[g,h,i]perylene				0.025 U	0.025 U	0.025 U	0.025 U	0.277	
Benzo[a]pyrene	82	0.09		0.030	0.025 U	0.025 U	0.025 U	0,271	
Chrysene	800	88		0.054	0.025 U	0.025 U	0.025 U	1.37	
Dibenzo[a,h]anthracene	7.6	0.09		0.025 U	0.025 U	0.025 U	0.025 U	0.281	
Dibenzofuran				NA	NA	NÄ	NA	NA	
Fluoranthene	21,000	3,100		0.072	0.025 U	0.025 U	0.025 U	1.19	
Fluorene	2,800	3,100		0.025 U	0.025 U	0.025 U	0.025 U	0.176	
Hexachlorocyclopentadiene	2200	550	10	NA	NA	NA	` NA	NA	
Indeno[1,2,3-cd]pyrene	69	0.9	`	0.025 U	0.025 U	0.025 U	0.025 U	0.267	
2-Methylnaphthalene				NA	NÁ	NA	NA	NA	
Naphthalene	420	3,100		0.025 U	0.025 U	0.025 U	0.025 U	0.025	
N-nitrosodiphenylamine	5.6	130		NA	NA	NA NA	NA	NA	
Phenanthrene			-	0.033	0.025 U	0.025 U	0.025 U	0.431	
Pyrene	21,000	2,300		0.070	0.025 U	0.025 U	0.025 U	1.32	
		B		y Pollutant Metals (mg/kg) NA NA NA NA NA NA					
Antimony	20	31		NA	NA	NA NA	NA (51		
Arsenic*	120	13	750	7.58	16.50	9.89	6.71	5.13	
Barium	1,800	5,500	690,000	364	85.10	67.00	71.40	392	
Beryllium	130,000	160	1,300	NA NA	NA NA	NA NA	NA NA	NA 1.36	
Cadmium	590	78	1,800	0.617	0.50 U	0.50 U	0.50 U	49.5	
Chromium***	28	390	270	32.9	31.90 NR NA	29.20 NA	28.90 NR NA	NA	
Copper Lead**	330,000	2,900 400		NA 678.0	21.70	20.30	16.00	3,220	
	32	23	10	0.069	0.04 U	0.04 U	0.04 U	0.095	
Mercury Nickel	14.000	1,600	13,000	0.069 NA	NA NA	NA NA	NA NA	NA	
Selenium	2.4	390	13,000	1.00 U	1,00 U	1.00 U	1.00 U	1.00 U	
Silver***	39	390		0.500 U	0.50 U	0.50 U	0.50 U	0.500 U	
Thallium	34	6.3		0.300 U	NA NA	NA NA	NA NA	NA	
Zinc	32,000	23,000		NA NA	NA NA	NA NA	NA NA	NA NA	
Total Cyanide	120	1,600		0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	
total Cyaniuc	120	1,000		ead and Chromiun		0.23 0	0.25 0	J.25 U	
The state of the s	0.1	п			· · · · · · · · · · · · · · · · · · ·	NA T	NA I	0.093	
SPLP Lead	0.1			0.074	NA 0 014	NA NA	0.005 U	0.093 NA	
SPLP Chromium	1.0			NA	0.014	NA	0.003 U	INA	

- (1) U Indicates compound/analyte was analyzed for but not detected, the associated value is the sample reporting limit.
- (2) I Indicates an estimated value.
- (3) NA Not Analyzed
- (4) Shaded values exceeded Tier 1 screening level.
- (5) -- Ioxicity criteria not available for exposure route (Illinois EPA 2001).
- (6) ** No pH-dependent value was available so SPLP analyses from select samples was used to evaluate this pathway.
- (7) *** No pH-dependent Class II value was available therefore the Class I value was used to evaluate this pathway.
- (8) * Calculated 95% upper confidence limit for arsenic at the site (9.007 mg/kg) is below the 13 mg/kg remediation objective



	T T			Sample Location and Depth (feet below ground surface)/Concentration					
		Tier 1							
		Remediation Objectives		RPM-SB22-002 0.5-1'	RPM-SB22-003 1-2'	RPM-SB22-004 2-3'	RPM-SB22-005 5-7'	RPM-SB23-00 0-0.5'	
Compound/Analyte	Soil to GW	Ingestion	Inhalation	WT ~ 7'	WT ~ 7'	WT ~ 7'	WT ~ 7'	WT~NE	
				TCL VOCs (mg/k	g)				
Benzene	0.17	22	0.8	0.002 U	0.002	0.002	0.002 U	0.002	
Carbon Disulfide	160	7,800	720	NA	NA	NA	NA	NA	
Ethylbenzene	19	7,800	400	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	
Styrene	18	16,000	1,500	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	
Toluene	29	16,000	650	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	
Xylenes (total)	150	160,000	410	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	
			,	TCL SVOCs (mg/k	:g)				
Acenaphthene	2,900	4,700		0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	
Acenapthylene	-			0.160	0.372	0.025 U	0.025 U	0.025 U	
Anthracene	59,000	23,000		0.047	0.113	0.025 U	0.025 U	0.039	
Benzo[a]anthracene	8	0.9		0.125	0.274	0.027	0.025 U	0.143	
Benzo[b]fluoranthene	25	0.9		0.089	0.230	0.025 U	0.025 U	0.100	
Benzo[k]fluoranthene	250	9		0.094	0.233	0.025 U	0.025 U	0.122	
Benzo[g,h,i]perylene		-		0.072	0.150	0.025 U	0.025 U	0.094	
Benzo[a]pyrene	82	0.09		0.240	0.268	0.025 U	0.025 U	0.104	
Chrysene	800	88		0.239	0.500	0.034	0.025 U	0.157	
Dibenzo[a,h]anthracene	7.6	0.09		0.025 U	0.065	0.025 U	0.025 U	0.030	
Dibenzofuran	-	-	-	NA	NA	NA	NA	NA	
Fluoranthene	21,000	3,100		0.145	0.413	0.025 U	0.025 U	0.275	
Fluorene	2,800	3,100		0.025 U	0.090	0.025 U	0.025 U	0.025 U	
Hexachlorocyclopentadiene	2200	550	10	NA	NA	NA	NA NA	NA	
Indeno[1,2,3-cd]pyrene	69	0.9		0.025 U	0.152	0.025 U	0.025 U	0.025 U	
2-Methylnaphthalene			`- <u>-</u>	NA	NA	NA NA	NA	NA	
Naphthalene	420	3,100		0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	
N-nitrosodiphenylamine	5.6	130		NA	NA	NA	NA	NA	
Phenanthrene				0.090	0.311	0.025 U	0.025 U	0.150	
Pyrene	21,000	2,300		0.026	0.593	0.034	0.025 U	0.228	
	п			Pollutant Metals	<u> </u>				
Antimony	20	31		NA	NA	NA	NA	NA	
Arsenic*	120	13	750	4.51	4.51	6.54	12.30	7.18	
Barium	1,800	5,500	690,000	184	82.3	83.80	60.10	126	
Beryllium	130,000	160	1,300	NA	NA	NA	NA NA	NA .	
Cadmium	590	78	1,800	1.74	1.01	0.50 U	0.50 U	0.500 U	
Chromium***	28	390	270	21.3	20.1	27.30	25.70	22.5	
Copper	330,000	2,900		NA	NA NA	NA NA	NA I	NA_	
Lead**		400		7,230	950	30.40	19.40	42:0	
Mercury	32	23	10	0.040 U	0.040 U	0.04 U	0.04 U	0.043	
Nickel	14,000	1,600	13,000	NA 100 II	NA I OO YY	NA NA	NA 1.00 II	NA 1.00 U	
Selenium	2.4	390		1.00 U	1.00 U	1.00 U	1.00 U	0.500 U	
Silver***	39	390		0.500 U	0.500 U	0.50 U	0.50 U	0.500 U_ NA	
Thallium	34	6.3		NA NA	NA	NA NA	NA NA		
Zinc	32,000	23,000		NA NA	NA 0.25 YI	0.25 U	0.25 U	0.25 U	
Total Cyanide	120	1,600	J	0.25 U	0.25 U	U.25 U	0.23 0	0.23 (
				ead and Chromium				0.005	
SPLP Lead	0.1			0.005	0.031	NA	NA		
SPLP Chromium	1.0			NA	NA	NA	NA	NA	

- (1) U Indicates compound/analyte was analyzed for but not detected, the associated value is the sample reporting limit.
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- (3) NA Not Analyzed
- (4) Shaded values exceeded Tier 1 screening level.
- (5) Toxicity criteria not available for exposure route (Illinois EPA 2001).
- (6) ** No pH-dependent value was available so SPLP analyses from select samples was used to evaluate this pathway
- (7) *** No pH-dependent Class II value was available therefore the Class I value was used to evaluate this pathway.
- (8) * Calculated 95% upper confidence limit for arsenic at the site (9.007 mg/kg) is below the 13 mg/kg remediation objective.

		Tier 1			Sample Location and Depth (feet below ground surface)/Concentration				
		Remediation	1		RPM-SB23-003				
		Objectives		0.5-1'	1-2'	2-3'	8-10'	0.5-1'	
Compound/Analyte	Soil to GW	Ingestion	l	WT~NE	WT ~ NE	WT~NE	WT~NE	WT ~ 10'	
		· · · · · · · · · · · · · · · · · · ·		TCL VOCs (mg/k	<u> </u>			· · · · · · · · · · · · · · · · · · ·	
Benzene	0.17	22	0.8	0.002 U	0.002 U	0.005	0.002 U	0.002U	
Carbon Disulfide	160	7,800	720	NA	NA	NA	NA	NA	
Ethylbenzene	19	7,800	400	0.005 U	0.005 U	0.006	0.005 U	0.005U	
Styrene	18	16,000	1,500	0.005 U	0.005 U	0.005 U	0.005 U	0.005U	
Toluene	29	16,000	650	0.005 U	0.005 U	0.012	0.005 U	0.005U	
Xylenes (total)	150	160,000	410	0.005 U	0.005 U	0.007	0.005 U	0.005U	
	1 1	1.500		CL SVOCs (mg/l	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	0.005.77	0.005.77	0.00577	
Acenaphthene	2,900	4,700		0.025 U	0.025 U	0.025 U	0.025 U	0.025U	
Acenapthylene				0.025 U	0.025 U	0.025 U	0.025 U	0.025U	
Anthracene	59,000	23,000		0.025 U	0.025 U	0.025 U	0.025 U	0.027	
Benzo[a]anthracene	8	0.9		0.025 U	0.025 U 0.025 U	0.025 U	0.025 U	0.085	
Benzo[b]fluoranthene	25	0.9		0.025 U 0.025 U	0.025 U	0.025 U	0.025 U	0.053	
Benzo[k]fluoranthene	250	9		0.025 U	0.025 U	0.025 U 0.025 U	0.025 U 0.025 U	0.067 - 0.036	
Benzo[g,h,i]perylene	82	0.09		0.025 U	0.025 U	0.025 U		0.036	
Benzo[a]pyrene	800	88		0.025 U	0.025 U	0.025 U	0.025 U 0.025 U	0.043	
Chrysene	7.6	0.09		0.025 U	0.025 U	0.025 U	0.025 U	0.084 0.025U	
Dibenzo[a,h]anthracene	7.0	0.09	-		NA			0.0250 NA	
Dibenzofuran	[NA 0.025 U		NA 0.025 II	NA 0.025 II	0.175	
Fluoranthene	21,000	3,100		0.025 U 0.025 U	0.025 U 0.025 U	0.025 U 0.025 U	0.025 U 0.025 U	0.175 0.025U	
Fluorene	2,800	3,100	10	0.025 U NA	0.025 U NA	0.025 U NA	0.025 U NA	0.025U NA	
Hexachlorocyclopentadiene	2200	550	10	0.025 U	0.025 U	0.025 U	0.025 U	0.040	
Indeno[1,2,3-cd]pyrene 2-Methylnaphthalene	69	0.9		0.025 U NA	0.023 U	0.023 U NA	0.023 U NA	0.040 NA	
Naphthalene	420	3,100		0.025 U	0.025 U	0.025 U	0.025 U	0.025U	
N-nitrosodiphenylamine	5.6	130		NA NA	NA NA	NA NA	NA	NA	
Phenanthrene	3.0	130		0.025 U	0.025 U	0.025 U	0.025 U	0.076	
Pyrene	21,000	2,300		0.025	0.025 U	0.025 U	0.025 U	0.173	
rytene	21,000	2,300		Pollutant Metals		0.023 0	0.025 0	0.173	
Antimony	20	31		NA NA	NA NA	NA	NA	NA	
Arsenic*	120	13	750	6.44	5.53	4.58	10.2	14,60	
Barium	1,800	5,500	690,000	71.3	46.8	49.9	65.2	23.10	
Beryllium	130,000	160	1,300	NA	NA	NA	NA	NA	
Cadmium	590	78	1,800	0.500 U	0.500 U	0.500 U	0.500 U	0.5U	
Chromium***	28	390	270	23.0	20.3	23.3	27.0	19.80	
Copper	330,000	2,900		NA	NA	. NA	· NA	NA	
Lead**		400		24.7	35.8	12.5	15.1	32.50	
Mercury	32	23	10	0.040 U	0.040 U	0.040 U	0.040 U	0.04U	
vickel	14,000	1,600	13,000	NA	NA	NA	NA	NA	
Selenium	2.4	390		1.00 U	1.00 U	1.00 U	1.00 U	1.04	
Silver***	39	390		0.500 U	0.500 U	0.500 U	0.500 U	0.5U	
Thallium	34	6.3		NA	NA	NA	NA	NA	
Zinc	32,000	23,000		NA	NA	NA	NA	NA	
Total Cyanide	120	1,600		0.25 U	0.25 U	0.25 U	0.25 U	0.25U	
			SPLP Le	ad and Chromiun	(mg/L)				
SPLP Lead	0.1		- 1	NA	NA	NA	NA	NA	
PLP Chromium	1.0			NA	NA	NA	NA	NA .	

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- (3) NA Not Analyzed
- (4) Shaded values exceeded Tier 1 screening level.
- (5) -- Toxicity criteria not available for exposure route (Illinois EPA 2001)
- (6) ** No pH-dependent value was available so SPLP analyses from select samples was used to evaluate this pathway.
- (7) *** No pH-dependent Class II value was available therefore the Class I value was used to evaluate this pathway
- (8) * Calculated 95% upper confidence limit for arsenic at the site (9.007 mg/kg) is below the 13 mg/kg remediation objective.



		Tier 1		1	Location and Dept			
		Remediation	1	11	RPM-SB24-003		1	RPM-SB26-001
		Objectives		3-4'	5-7'	2-3'	5-7'	
Compound/Analyte	Soil to GW	Ingestion	Inhalation	WT - 10'	WT ~ 10'	WT ~ 9'	WT ~ 9'	WT ~ NE
				TCL VOCs (mg/k				
Benzene	0.17	22	0.8	0.007	0.002	0.002U	0.003J	0.002 U
Carbon Disulfide	160	7,800	720	NA	NA	NA	NA	NA
Ethylbenzene	19	7,800	400	0.005U	0.005U	0.005U	0.005U	0.005 U
Styrene	18	16,000	1,500	0.005U	0.005ปั	0.005U	0.005U	0.005 U
Toluene	29	16,000	650	0.005U	0.005U	0.005U	0.005ปั	0.005 U
Xylenes	150	160,000	410	0.005Ü	0.005U	0.005U	0.005U	0.005 U
]	CL SVOCs (mg/l				0.00511
Acenaphthene	2,900	4,700		0.025U	0.025U	0.025U	0.025U	0.025U
Acenaphthylene				0.025U	0.025U	0.025U	0.025U	0.025U
Anthracene	59,000	23,000		0.025U	0.025U	0.025U	0.025U	0.046
Benzo(a)anthracene	8	0.9		0.025U	0.025U	0,025U	0.025U	0.138
Benzo(b)fluoranthene	25	0.9		0.025U	0.025U	0.025U	0.025U	0.054
Benzo(k)fluoranthene	250	9		0.025U	0.025U	0.025U	0.025U	0.054
Benzo(g,h,I)perylene				0.025U	0.025U	0.025U	0.025U	0.025 U
Benzo(a)pyrene	82	0.09		0.025U	0.025U	0.025U	0.025U	0.060
Chrysene	800	88		0.025U	0.025U	0.025U	0.025U	0.171
Dibenzo[a,h]anthracene	7.6	0.09		0.025U	0.025Ų	0.025U	0.025U	0.025 U
Dibenzofuran				NA	NA	NA	NA	NA
Fluoranthene	21,000	3,100		0.025U	0.025U	0.034	0.025U	0.338
Fluorene	2,800	3,100		0.025U	0.025U	0.025U	0.025U	0.025 U
Hexachlorocyclopentadiene	2200	550	10	NA	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	69	0.9		0.025U	0.025U	0.025U	0.025U	0.026
2-Methylnaphthalene	L			NA	NA	NA	NA	NA 0.005 II
Naphthalene	420	3,100	-	0.025U	0.025U	0.025U	0.025U	0.025 U
N-nitrosodiphenylamine	5.6	130		NA	NA	NA	NA 0.005H	NA 0.150
Phenanthrene				0.025U	0.025U	0.025U	0.025U	0.159
Pyrene	21,000	2,300		0.025U	0.025ปั	0.040	0.025U	0.276
			·	Pollutant Metals		ŇA	NA I	NA .
Antimony	20	31		NA	NA		2.44	5.39
Arsenic*	120	13	750	10.70	5.72	7.83		63,1
Barium	1,800	5,500	690,000	60.20	39.40	73.40 NA	39.70 NA	NA
Beryllium	130,000	160	1,300	NA	NA OFFI	0.5U	0.5U	0.500 U
Cadmium	590	78	1,800	0.5U	0.5U	26.20	16.80	17.1
Chromium***	28	390	270	27.00	16.70	NA NA	NA NA	NA
Соррег	330,000	2,900		NA 10.70	NA 16 00	16.70	14.10	77.7
Lead**		400		18.70	16.90 0.044	0.04U	0.04U	0.134
Mercury	32	23	10	0.050 NA	0.044 NA	0.04U NA	0.040 NA	NA
Nickel	14,000	1,600	13,000		1U	1U	1U	1.00 U
Selenium	2.4	390		1U 0.5U	0.5U	0.5U	0.5U	0.500 U
Silver***	39	390		0.5U NA	0.5U NA	NA NA	NA NA	NA
Thallium	34	6.3		NA NA	NA NA	NA NA	NA NA	NA NA
Zinc	32,000	23,000		0,25U	0,25U	0.25U	0.25U	0.25 U
Total Cyanide (amenable)	120	1,600		<u> </u>		0.230	0.230	0.23 0
· · · · · · · · · · · · · · · · · · ·				ead and Chromiur		NIA T	NA	0.005 U
SPLP Lead	0.1			NA	NA	NA	NA NA	0,003 U NA
SPLP Chromium	1.0			NA	NA	NA NA	NA NA	IAM

- (1) U Indicates compound/analyte was analyzed for but not detected, the associated value is the sample reporting limit.
- (2) J Indicates an estimated value
- (3) NA Not Analyzed
- (4) Shaded values exceeded Tier 1 screening level
- (5) -- Toxicity criteria not available for exposure route (Illinois EPA 2001)
- (6) ** No pH-dependent value was available so SPLP analyses from select samples was used to evaluate this pathway
- (7) *** No pH-dependent Class II value was available therefore the Class I value was used to evaluate this pathway.
- (8) * Calculated 95% upper confidence limit for arsenic at the site (9.007 mg/kg) is below the 13 mg/kg remediation objective



		Tier 1			Location and Dept			
		Remediation	1	RPM-SB26-002	RPM-SB26-003	RPM-SB27-001	RPM-SB27-002	
		Objectives		2-3'	8-10'-	1-2'	2-3'	7-9'
Compound/Analyte	Soil to GW	Ingestion	Inhalation	WT ~ NE	WT - NE	WT ~ NE	WT~NE	WT~NE
				TCL VOCs (mg/k				
Benzene	0.17	22	0.8	0.002 U	0.002 U	0.004	0.002	0.002 U
Carbon Disulfide	160	7,800	720	NA	ŇA	NA	NA .	NA
Ethylbenzene	19	7,800	400	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
Styrene	18	16,000	1,500	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
Toluene	29	16,000	650	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
Xylenes (total)	150	160,000	410	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
				CL SVOCs (mg/l		0.005.77	0.005.17	0.005.11
Acenaphthene	2,900	4,700		0.072	0.025 U	0.025 U	0.025 U	0.025 U
Acenapthylene				0.264	0.025 U	0.085	0.025 U	0.062
Anthracene	59,000	23,000		- 0.260	0.025 U	0.034	0.025 U	0.029
Benzo[a]anthracene	8	0.9		0.712	0.025 U	0.082	0.025 U	0.057
Benzo[b]fluoranthene	25	0.9		0.613	0.025 U	0.049	0.025 U	0.034
Benzo[k]fluoranthene	250	9		0.519	0.025 U	0.030	0.025 U	0.027
Benzo[g,h,i]perylene			<u> </u>	0.329	0.025 U	0.025 U	0.025 U	0.029
Benzo[a]pyrene	82	0.09		1.21	0.025 U	0.048	0.025 U	0.036
Chrysene	800	88		0.810	0.025 U	0.122	0.025 U	0.119 0.025 U
Dibenzo[a,h]anthracene	7.6	0.09		0.088	0.025 U	0.025 U	0.025 U	
Dibenzofuran				NA	NA NA	NA NA	NA 2 225 Y	NA 0.151
Fluoranthene	21,000	3,100		1.26	0.025 U	0.172	0.025 U	0.151
Fluorene	2,800	3,100		0.142	0.025 U	0.025 U	0.025 U	0.031
Hexachlorocyclopentadiene	2200	550	10	NA	NA NA	NA 0.005 VI	NA 0.025 II	NA 0.028
Indeno[1,2,3-cd]pyrene	69	0.9		0.054	0.025 U	0.025 U	0.025 U NA	0.028 NA
2-Methylnaphthalene				NA	NA NA	NA 0.005 II	0.025 U	0.025 U
Naphthalene	420	3,100		0.025	0.025 U	0.025 U		0.025 C NA
N-nitrosodiphenylamine	5.6	130		NA	NA NA	NA 0.000	NA 0.025 U	0.087
Phenanthrene				0.685	0.025 U	0.098	0.025 U	0.087
Pyrene	21,000	2,300		1.18	0.025 U	0.157	0.025 0	0.131
				Pollutant Metals	· · · · · · · · · · · · · · · · · · ·	NA	NA	NA
Antimony	20	31		7.57	NA 5.05	5.20	3.79	4,77
Arsenic*	120	13	750	62.1	62.1	61.0	68.2	96.0
Barium	1,800	5,500	690,000	02.1 NA	NA NA	NA NA	NA NA	NA NA
Beryllium	130,000	160	1,300	0.500 U	0,500 U	0.500 U	0.500 U	0.500 U
Cadmium	590		1,800 270	18.5	24.7	15.9	29.6	25.1
Chromium***	28 330,000	2,900		NA NA	NA NA	NA NA	NA	NA
Copper	330,000	400		122	12.5	281	18.6	14.0
Lead**	32	23	10	0.054	0.040 U	0.043	0.040 U	0.040 U
Mercury Nickel	14,000	1,600	13,000	NA	NA NA	NA NA	NA	NA
Selenium	2.4	390	13,000	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U
Silver	2.4	390		0.500 U	0.500 U	0.500 U	0.500 U	0.500 U
Silver Thallium	34	6.3		NA	NA NA	NA NA	NA	NA
Zine	32,000	23,000		NA NA	NA	NA	NA	NA
Total Cyanide	120	1,600		0.25 U	0.60	0.25 U	0.25 U	0.25 U
Total Cyaniuc	120	1,000	t d td2	ead and Chromium		,		
CDI D I and	0.1		SFLF L	0.034	NA T	0.014	NA	NA
SPLP Lead SPLP Chromium	1.0			NA	NA NA	NA NA	NÁ	NA

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- (2) J Indicates an estimated value.
- (3) NA Not Analyzed
- (4) Shaded values exceeded I ier 1 screening level
- (5) Toxicity criteria not available for exposure route (Illinois EPA 2001)
- (6) ** No pH-dependent value was available so SPLP analyses from select samples was used to evaluate this pathway
- (7) *** No pH-dependent Class II value was available therefore the Class I value was used to evaluate this pathway.
- (8) * Calculated 95% upper confidence limit for arsenic at the site (9 007 mg/kg) is below the 13 mg/kg remediation objective.

		Tier 1		Sample Location and Depth (feet below ground surface)/Concentration					
	-	Remediation		<u> </u>	RPM-SB28-002				
		Objectives	1	0-1'	2-3'	6-8'	2-3'	5-7'	
Compound/Analyte	Soil to GW	Ingestion	Inhalation	WT - NE	WT~NE	WT~NE	WT~NE	WT~NE	
	·		<u> </u>	TCL VOCs (mg/k	g)			<u> </u>	
Benzene	0.17	22	0.8	0.007	0.002 U	0.002 U	0.002U	0.004	
Carbon Disulfide	160	7,800	720	NA	NA	NA	NA	NA	
Ethylbenzene	19	7,800	400	0.011	0.005 U	0.005 U	0.005U	0.005U	
Styrene	18	16,000	1,500	0.005 U	0.005 U	0.005 U	0.005U	0.005U	
Toluene	29	16,000	650	0.005	0.005 U	0.005 U	0.005U	0.005U	
Xylenes (total)	150	160,000	410	0.050	0.005 U	0.005 U	0.005U	0.005U	
	11	<u> </u>]	CL SVOCs (mg/l	(g)				
Acenaphthene	2,900	4,700		0.025 U	0.025 U	0.025 U	0.036	0.029J	
Acenapthylene				0.126	0.025 U	0.025 U	0.025U	0.267J	
Anthracene	59,000	23,000		0.072	0.025 U	0.025 U	0.112	0.08J	
Benzo[a]anthracene	8	0.9		0.178	0.025 U	0.025 U	0.186	0.221J	
Benzo[b]fluoranthene	25	0.9	-	0.112	0.025 U	0.025 U	0.151	0.113J	
Benzo[k]fluoranthene	250	9		0.119	0.025 U	0.025 U	0.130	0.136J	
Benzo[g,h,i]perylene	l			0.075	0.025 U	0.025 U	0.102	0.1J	
Benzo[a]pyrene	82	0.09	_	0.252	0.025 U	0.025 U	0.182	0.248J	
Chrysene	800	88	1	0.245	0.025 U	0.025 U	0.172	0.265J	
Dibenzo[a,h]anthracene	7.6	0.09		0.028	0.025 U	0.025 U	0.055	0.065J	
Dibenzofuran				NA	NA	NA	NA	NA	
Fluoranthene	21,000	3,100		0.315	0.025 U	0.025 U	0.313	0.122J	
Fluorene	2,800	3,100	_	0.034	0.025 U	0.025 U	0.041	0.047J	
Hexachlorocyclopentadiene	2200	550	10	NA	NA	NA	NA	NA	
Indeno[1,2,3-cd]pyrene	69	0.9		0.077	0.025 U	0.025 U	0.102	0.102J	
2-Methylnaphthalene				NA	NA	NA	NA	NA	
Naphthalene	420	3,100		0.025 U	0.025 U	0.025 U	0.025U	0.076J	
N-nitrosodiphenylamine	5.6	130		NA	NA	NA	NA	NA	
Phenanthrene	-			0.148	0.025 U	0.025 U	0.278	0.089J	
Pyrene	21,000	2,300		0.277	0.025 U	0.025 U	0.281	0.229J	
		Pric	ority Pollutan	t Metals (mg/kg)					
Antimony	20	31	- 1	NA	NA	NA	NA	NA	
Arsenic*	120	13	750	2.25	4.70	11.6	5.530	9.650	
Barium	1,800	5,500	690,000	38.2	72.4	52.9	37.500	61.900	
Beryllium	130,000	160	1,300	NA	NA	NA	NA	NA	
Cadmium	590	78	1,800	0.500 U	0.500 U	0.500 U	0.500U	0.500U	
Chromium***	28	390	270	8.73	29.1 NR	29.6 NR	11.500	21.200	
Copper	330,000	2,900	-	NA	NA	NA	NA	NA	
Lead**		400	-	446	19.5	30.8	38.9	64	
Mercury	32	23	10	0.040 U	0.040 U	0.040 U	0.261	0.137	
Nickel	14,000	1,600	13,000	NA	NA	NA	NA	NA	
Selenium	2.4	390		1.00 U	1.17	1.00 U	1.000U	1.000U	
Silver***	39	390		0.500 U	0.500 U	0.500 U	0.837	0.500U	
Thallium	34	6.3		NA	NA	NA	NA	NA	
Zinc	32,000	23,000		NA	NA	NA	NA	NA	
Total Cyanide	120	1,600	_	0.25 U	0.25 U	0.25 U	0.250U	0.250Ŭ	
			SPLP Le	ead and Chromiun	ı (mg/L)				
SPLP Lead	0.1 .			0.09	NA	NA	NA	NA	
SPLP Chromium	1.0			NA	0.005 U	0.005	NA	NA	

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- (4) Shaded values exceeded Tier 1 screening level.
- (5) -- Toxicity criteria not available for exposure route (Illinois EPA 2001).
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- (7) *** No pH-dependent Class II value was available therefore the Class I value was used to evaluate this pathway.
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		Tier 1			Location and Deptl			
	1	Remediation	1	RPM-SB29A-001	RPM-SB29A-002	RPM-SB30-001	RPM-SB30-002	RPM-SB30-00
'		Objectives		2-3'	9-11'	2-3'	3-5'	7-9'
Compound/Analyte	Soil to GW	Ingestion	Inhalation	WT ~ 10'	WT ~ 10'	WT ~ NE	WT~NE	WT~NE
	JI	JI		TCL VOCs (mg/k	g)			
Benzene	0.17	22	0.8	17,800	0.200	27.700	124.000	31.300
Carbon Disulfide	160	7,800	720	NA	NA	NA NA	NA	NA
Ethylbenzene	19	7,800	400	10.000	0.170	8.900	43,100	11.200
Styrene	18	16,000	1,500	0.600	0.084	0.084	0.100U	0.055
Toluene	29	16,000	650	2.670	0.397	0.136	0.144	0.820
Xylenes (total)	150	160,000	410	21.200	1.280	6.550	19.200	7.860
		II	·	TCL SVOCs (mg/l	kg)			
Acenaphthene	2,900	4,700	-	80.500	0.129J	0.530	2.110	3.820
Acenapthylene				51.800	0.218J	0.218	2.710	2.840
Anthracene	59,000	23,000		149.000	0.41J	0.385	2.180	3.850
Benzo[a]anthracene	8	0.9		94.800	0.305J	0.394	2,590	4.730
Benzo[b]fluoranthene	25	0.9		19.700	0.1J	0.174	0.857	1.920
Benzo[k]fluoranthene	250	9		19.500	0.076J	0.128	0.673	1.370
Benzo[g,h,i]perylene		-		12.000	0.044J	0.077	0.384	0.738
Benzo[a]pyrene	82	0.09		57,200	0,136J	0.238	2.070	2.910
Chrysene	800	88		99.500	0.32J	0.405	2.590	5.010
Dibenzo[a,h]anthracene	7.6	0.09		12.200	0.029J	0.051	0.356	0.574
Dibenzofuran				NA	NA	NA	NA	NA
Fluoranthene	21,000	3,100		155.000	0.45J	0.472	1.230	5.910
Fluorene	2,800	3,100		386.000	1.29J	1.330	3.270	6.240
Hexachlorocyclopentadiene	2200	550	10	NA	NA	NA	NA	NA
Indeno[1,2,3-cd]pyrene	69	0.9		13.000	0.045J	0.083	0.399	0.799
2-Methylnaphthalene				NA	NA	NA	NA	NA
Naphthalene	420	3,100		208.000	0.607J	1.700	9.460	8.540
N-nitrosodiphenylamine	5.6	130		NA	NA	NA	NA	NA
Phenanthrene				376.000	1.24J	1.930	7.570	12.900
Pyrene	21,000	2,300		203.000	0.613J	0.653	3.000	8.430
	· · · · · · · · · · · · · · · · · · ·		Priori	ity Pollutant Metals				
Antimony	20	. 31		NA	NA	NA	NA	NA . COO
Arsenic*	120	13	750	4.180	5.300	4.180	18.000	4.630
Barium	1,800	5,500	690,000	95.700	58.800	91.600	70.900	45.500
Beryllium	130,000	160	1,300	NA	NA	NA	NA 2 COOK	NA 0.500II
Cadmium	590	78	1,800	0.500U	0.500U	0.515	0.500U	0.500U 15.500
Chromium***	28	390	270	13.600	13.100	22.500	22.700	
Copper	330,000	2,900		NA	NA (1.200	NA	NA 12 000	NA
Lead**	<u> </u>	400		302.000	61.200	517.000	43.900 0.040U	132.000 0.040U
Mercury	32	23	10	0.189	0.103	0.040U	0.040U NA	0.0400 NA
Nickel	14,000	1,600	13,000	NA 1 000 I	NA 1 000U	NA 1 000U	1.000U	1.000U
Selenium	2.4	390		1.000U	1.000U	1.000U	0.500U	0.500U
Silver***	39	390		0.500U	0.500U	0.500U	0.500U NA	0.5000 NA
Thallium	34	6.3		NA NA	NA NA	NA NA	NA NA	NA NA
Zinc	32,000	23,000		NA 0,47U	0.25U	0.25U	0.25U	0.25U
Total Cyanide (amenable)	120	1,600		<u> </u>		U.Z3U	0.230	0.230
		·····		Lead and Chromiur		NT.	NT 4	NIA
SPLP Lead	0.1			NA NA	NA NA	NA NA	NA NA	NA NA
SPLP Chromium	1.0	<u></u> J		NA	NA	NA.	INV	INA

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- (4) Shaded values exceeded Tier 1 screening level.
- (5) Toxicity criteria not available for exposure route (Illinois EPA 2001)
- (6) ** No pH-dependent value was available so SPLP analyses from select samples was used to evaluate this pathway.
- (7) *** No pH-dependent Class II value was available therefore the Class I value was used to evaluate this pathway
- (8) * Calculated 95% upper confidence limit for arsenic at the site (9.007 mg/kg) is below the 13 mg/kg remediation objective



		Tier 1			Location and Dep			
•		Remediation Objectives	l .	RPM-SB31-001 1-2'	RPM-SB31-002 2-3'	RPM-SB31-003 5-7'	RPM-SB61-001 0-1'	RPM-SB61-002 1-2'
Compound/Analyte	Soil to GW	Ingestion	Inhalation	WT~NE	WT~NE	WT~NE	WT ~ NE	WT~NE
Compound Analyte	3011 10 0 11	mgcshon	L	TCL VOCs (mg/k				
,-	0.17	22	0.8	0.007	0.002U	0.002U	0.003	0.017
Benzene	160	7,800	720	NA NA	NA	NA	NA	NA
Carbon Disulfide	19	7,800	400	0.005U	0.005U	0.005U	0.005 U	0.005 U
Ethylbenzene	18	16,000	1,500	0.005U	0,005U	0.005U	0.005 U	0.005 U
Styrene	29	16,000	650	0.005U	0.005U	0.005U	0.005 U	0.005
Toluene	150	160,000	410	0.009	0.005U	0.005U	0.005 U	0,005 U
Xylenes	130	100,000		CL SVOCs (mg/l				L
Acenaphthene	2,900	4,700		0.025U	0.025U	0.025U	0.070	0.883
	2,900	4,700		0.025U	0.025U	0.025U	1.060	8.090
Acenaphthylene	59,000	23,000		0.025U	0.025U	0.025U	0.351	2,360
Anthracene	39,000	0.9		0.025U	0.025U	0.025U	0.741	1,320
Benzo(a)anthracene Benzo(b)fluoranthene	25	0.9		0.025U	0.025U	0.025U	0.316	0.809
Benzo(b)fluoranthene Benzo(k)fluoranthene	250	9		0.025U	0.025U	0.025U	0.389	0.607
Benzo(k)nuoranmene Benzo(g,h,I)perylene	250			0.025U	0.025U	0.025U	0.318	2.140
	82	0.09		0.025U	0,025U	0.025U	0.449	1.190
Benzo(a)pyrene	800	88		0.025U	0.025U	0.025U	0.803	1.340
Chrysene	7.6	0.09		0.025U	0.025U	0.025U	0.170	0.792
Dibenzo[a,h]anthracene	7.0	0.09		NA NA	NA NA	NA	NA	NA
Dibenzofuran	<u> </u>	3,100		0.025U	0.025U	0.025U	1.020	0.951
Fluoranthene	21,000			0.025U	0.025U	0.025U	0.221	1.950
Fluorene	2,800	3,100	10	NA	NA NA	NA NA	NA NA	NA
Hexachlorocyclopentadiene	2200	550	10	0.025U	0.025U	0.025U	0.331	1.590
Indeno(1,2,3-cd)pyrene	69	0.9		0.0230 NA	NA	NA	NA NA	NA
2-Methylnaphthalene	1			0.025U	0.025U	0.025U	0.025 U	1.900
Naphthalene	420	3,100		0.0230 NA	NA	NA NA	NA NA	. NA
N-nitrosodiphenylamine	5.6	130		0.025U	0.025U	0.025U	0.403	0.548
Phenanthrene		2,300		0.025U	0.025U	0.025U	0.981	2.740
Pyrene	21,000	2,300	Priorit	Pollutant Metals		0.0250	0.201	2.,,,,
	II 20 II	21	rions	NA NA	NA NA	NA	NA	NA
Antimony	20 120	31 13	750	3.590	33.900	9,520	5,560	3.070
Arsenic*	1,800	5,500	690,000	62.400	52.800	37.900	73.3	50.8
Barium	1,800	160	1,300	NA	NA NA	NA NA	NA.	NA
Beryllium	590	78	1,800	0.500U	0.500U	0.500U	0.500 U	0.500 U
Cadmium	28	390	270	20.700	27.200	14.100	16.6	14.0
Chromium***	330,000	2,900		NA NA	NA NA	NA NA	NA	NA
Copper	330,000	400		19.400	18,500	15.500	228	203
Lead**	32	23	10	0.040U	0.040U	0.040U	0.118	0.048
Mercury	14,000	1,600	13,000	NA	NA	NA	NA NA	NA
Nickel	(390	13,000	1.000U	1.000U	1,000U	1.000 U	1.000 U
Selenium	2.4	390		0.500U	0.500U	0.500U	0.500 U	0.500 U
Silver***	39	6.3		0.3000 NA	NA NA	NA NA	NA NA	NA
Thallium	i————	23,000		NA NA	NA NA	NA NA	NA	NA
Zinc	32,000 120	1,600		0.25U	0.25U	0.25U	0.25 U	0.25 U
Total Cyanide (amenable)	120	1,000				0.250		
				ead and Chromiur	n (mg/L) NA	NA	NA	NA
SPLP Lead	1.0			NA NA	NA NA	NA NA	NA NA	NA NA

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- (3) NA Not Analyzed
- (4) Shaded values exceeded Tier 1 screening level.
- (5) -- I oxicity criteria not available for exposure route (Illinois EPA 2001)
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- (8) * Calculated 95% upper confidence limit for arsenic at the site (9.007 mg/kg) is below the 13 mg/kg remediation objective.



		Tier 1		l———	Location and Dep	,	,	,
		Remediation Objectives	1	RPM-SB61-003 2-3'	RPM-SB61-004 4-6'	RPM-SB70-001 6-8'	RPM-SB71-001 6-8'	RPM-SB72-00: 6-8'
Compound/Analyte	Soil to GW	Ingestion	Inhalation	WT ~ NE	WT~NE	WT ~ 10'	WT ~ 16'	WT ~ 9'
Compound's mary to	Journa G III	Ingocaoa	<u> </u>	TCL VOCs (mg/k				
Benzene	0.17	22	0.8	26.000	<u></u>	0.002U	0,002U	0.002U
Carbon Disulfide	160	7,800	720	NA	NA	NA	NA	NA
Ethylbenzene	19	7,800	400	41,400	36.500	0.005U	0.005U	0.005U
Styrene	18	16,000	1,500	0.050 U	4.990	0.005U	~0.005U	0.005U
Toluene	29	16,000	650	0,978	73,200	0.005U	0.005U	0.005U
Xylenes	150	160,000	410	64,100	72,200	0.005U	0.005U	0.005U
71310100	1 100 1	200,000		CL SVOCs (mg/l	(g)			
Acenaphthene	2,900	4,700	T	0.735 J	5.150	0.025U	0.025U	0.025U
Acenaphthylene			·	0.769 Ј	6,700	0.025U	0.025U	0.041
Anthracene	59,000	23,000		0.649 J	7.910	0.025U	0.025U	0.025U
Benzo(a)anthracene	8	0.9		0.689 J	6.290	0.025U	0.025U	0.029
Benzo(b)fluoranthene	25	0.9	-	0.197 Ј	1.320	0.025U	0.025U	0.041
Benzo(k)fluoranthene	250	9		0.217 J	1.200	0.025U	0.025U	0.031
Benzo(g,h,I)perylene				0.144 J	0.587	0.025U	0.025U	0.030
Benzo(a)pyrene	82	0.09		0.339 J	1.780	0.025U	0.025U	0.035
Chrysene	800	88		0.745 J	6.610	0.025U	0.025U	0.056
Dibenzo[a,h]anthracene	7.6	0.09		0.093 J	0.478	0.025U	0.025U	0.025U
Dibenzofuran	l			NA	NA	NA	NA	NA
Fluoranthene	21,000	3,100		0.762 J	7.810	0.025U	0.025U /	0.043
Fluorene	2,800	3,100		1.270 J	14.400	0.025U	0.025U	0.025U
Hexachlorocyclopentadiene	2200	550	10	NA	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	69	0.9		0.163 J	0.712	0.025U	0.025U	0.027
2-Methylnaphthalene				NA	NA	NA	NA	· NA
Naphthalene	420	3,100		1.380 J	15.600	0.025U	0.025U	0.025U
N-nitrosodiphenylamine	5.6	130		NA	NA	NA	NA	NA
Phenanthrene				1.740 J	33.800	0.025U	0.025U	0.031
Pyrene	21,000	2,300		1.510 J	10.300	0.025U	0.025U	0.063
	······································		Priority	Pollutant Metals	(mg/kg)			
Antimony	20	31	-	NA	NA	NA	NA	NA
Arsenic*	120	13	750	4.130	5.140	6.03	3.12	2.24
Barium	1,800	5,500	690,000	63.100	48.000	27.60	34.40	51.10
Beryllium	130,000	160	1,300	NA	NA	NA	NA	NA
Cadmium	590	78	1,800	0.500 U	0.500 U	0.500U	0.500U	0.500U
Chromium***	28	390	270	20.2	20.9	14.50	18.90	22.70
Copper	330,000	2,900		NA	NA	NA	NA	NA
Lead**		400		20.7	13.5	12.10	14.10	42.70
Mercury	32	23	10	0.040 U	0.040 U	0.040U	0.040U	0.040U
Nickel	14,000	1,600	13,000	NA	NA NA	NA	NA	NA
Selenium	2.4	390		1.000 U	1.000 U	1.00U	· 1.00U	1.00U
Silver***	39	390		0.500 U	0.500 U	0.500U	0.500U	0.500U
Thallium	34	6.3		NA	NA	NA	NA NA	NA NA
Zinc	32,000	23,000		NA	NA	NA	NA	NA 0.05V
Total Cyanide (amenable)	120	1,600		0.25 U	0.25 U	0.25U	0.25U	0.25U
			SPLP L	ead and Chromiun	n (mg/L)			
SPLP Lead	0.1			NA	NA	NA	NA.	NA
SPLP Chromium	1.0			NA	NA	NA	NA	NA

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- (2) J Indicates an estimated value.
- (3) NA Not Analyzed
- (4) Shaded values exceeded I ier 1 screening level.
- (5) Toxicity criteria not available for exposure route (Illinois EPA 2001).
- (6) ** No pH-dependent value was available so SPLP analyses from select samples was used to evaluate this pathway.
- (7) *** No pH-dependent Class II value was available therefore the Class I value was used to evaluate this pathway
- (8) * Calculated 95% upper confidence limit for arsenic at the site (9 007 mg/kg) is below the 13 mg/kg remediation objective.

	·	····	· · · · · · · · · · · · · · · · · · ·		Y . 17	d. (C-+1-1		untention
		Tier 1				th (feet below grou		
		Remediation	1	11	RPM-SB74-001	1	B-12	B-13
		Objectives	·	3-5'	6-8*	7-8'	8-10'	3.5-4.5'
Compound/Analyte	Soil to GW	Ingestion	Inhalation	WT ~ 12'	WT ~ 5'	WT ~ 7.5'	WT ~ 8'	WT~NE
			.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	TCL VOCs (mg/k				
Benzene	0.17	22	0.8	0.002U	0.002U	0.002U	0.156	0.01
Carbon Disulfide	160	7,800	720	NA	NA	NA	0.033	0.005 U
Ethylbenzene	19	7,800	400	0.005U	0.005U	0.005U	0.006	0.157
Styrene	18	16,000	1,500	0.005U	0.005U	0.005U	0.005 U	0.007
Toluene	29	16,000	650	0.005U	0.005U	0.005U	0.005 U	0.005
Xylenes	150	160,000	410	0.031	0.005U	0.005U	0.062	0.143
]	CL SVOCs (mg/l				
Acenaphthene	2,900	4,700		0.025U	0.025U	0.025U	0.33 UJ	10.6 Ј
Acenaphthylene				0.025U	0.040	0.025U	0.33 U	0.33 U
Anthracene	59,000	23,000		0.025U	0.026	0.025U	0.33 U	13.9
Benzo(a)anthracene	8	0.9		0.025U	0.056	0.025U	0.33 U	7.08
Benzo(b)fluoranthene	25	0.9		0.025U	0.025U	0.025Ü	0.33 U	1.22
Benzo(k)fluoranthene	250	9		0.025U	0.025U	0.025U	0.33 U	1.09
Benzo(g,h,I)perylene		-	-	0.025U	0.027	0.025U	0.33 U	2.87
Benzo(a)pyrene	82	0.09		0.025U	0.043	0.025U	0.33 U	1.81
Chrysene	800	88		0.026	0.061	0.025U	0.33 U	0.33 U
Dibenzo[a,h]anthracene	7.6	0.09		0.025U	0.025U	0.025U	0.33 U	. 0.33 U
Dibenzofuran			-	NA	NA	NA	0.33 U	0.33 U
Fluoranthene	. 21,000	3,100		0.041	0.044	0.025U	0.33 U	0.33 U
Fluorene	2,800	3,100		0.025U	0.037	0.025U	0.33 U	0.33 U
Hexachlorocyclopentadiene	2200	550	10	NA	NA	NA	0.33 U	0.33 U
Indeno(1,2,3-cd)pyrene	69	0.9		0.025U	0.025U	0.025U	0.33 U	0.33 U
2-Methylnaphthalene				NA	NA	NA	0.33 Ú	0.33 U
Naphthalene	iaiciic	3,100		0.025U	0.025U	0.025U	0.33 U	0.33 U
N-nitrosodiphenylamine	5.6	130		NA	NA	NA	0.33 U	0.33 UJ
Phenanthrene				0.025U	0.055	0.025U	0.33 U	0.33 U
Pyrene	21,000	2,300		0.037	0.068	0.025U	0.33 U	0.33 U
2 9 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2		Pri	ority Pollutai	nt Metals (mg/kg)				
Antimony	20	31	_	NA	NA	NA	2.3 U	1.9 U
Arsenic*	120	13	750	7.93	5.95	7.13	3	2.5
Barium	1,800	5,500	690,000	66.80	55.30	54.70	44.9	39.5
Beryllium	130,000	160	1,300	NA	NA	NA	0.46 U	0.47
Cadmium	590	78	1,800	0.500U	0.500U	0.500U	0.23 U	0.2
Chromium***	28	390	270	20.40	19.40	21.50	13.8	12.9
Copper	330,000	2,900		NA	NA	NA	17.1	16.7
Lead**		400		65.90	29.00	13.80	10.5	250
Mercury	32	23	10	0.040U	0.040U	0.040U	0.07	0.04 U
Nickel	14,000	1,600	13,000	ΝA	NA	NA	16.5	16.7
Selenium	2.4	390		1.00U	1.00U	1.00U	0.58 U	0.47
Silver***	39	390		0.500U	0.500U	0.500U	0.58 U	0.47 U
Thallium	34	6.3		NA	NA	NA	1.2 U	0.93 U
Zinc	32,000	23,000		NA	NA	NA	43.1	3880
Total Cyanide (amenable)	120	1,600		0.25U	0.25U	0.25U	NA	NA
			SPLP I	ead and Chromiu	m (mg/L)			
SPLP Lead	0.1			NA	NA	NA	0.0075 U	0.025
SPLP Chromium	1.0			NA	NA	NA	0.05 U	0.05 U

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- (4) Shaded values exceeded Tier 1 screening level.
- (5) -- Ioxicity criteria not available for exposure route (Illinois EPA 2001).
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- (8) * Calculated 95% upper confidence limit for arsenic at the site (9.007 mg/kg) is below the 13 mg/kg remediation objective



				,				
		Tier 1		Sample l	Location and Dept		ound surface)/Conc	entration
-		Remediation	1	B-13	B-14	B-14 Dup	B-15	B-16
		Objectives		13-14'	6-8'	6-8'	7-8'	8-10'
Compound/Analyte	Soil to GW	Ingestion	Inhalation	WT~NE	WT~NE	WT ~ NE	WT ~ NE	WT ~ NE
	alternative and the second	·		TCL VOCs (mg/k	g)	-		
Benzene	0.17	22	0.8	0.005 U	0.005 U	NA	2.55 J	0.200 U
Carbon Disulfide	160	7,800	720	0.005 U	0.005 U	NA	0.028 J	0.25 U
Ethylbenzene	19	7,800	400	0.005 U	0.005 U	NA	0.006 J	0.15 U
Styrene	18	16,000	1,500	0.005 U	0.005 U	NA	1.78 J	0.15 U
Toluene	29	16,000	650	0.005 U	0.005 UJ	NA	0.005 UJ	0.2 U
Xylenes	150	160,000	410	0.005	0.005 U	NA	12.1 J	0.45 U
			1	CL SVOCs (mg/k			· 	
Acenaphthene	2,900	4,700		0.33 UJ	0.33 UJ	0.33 UJ	1.42 J	0.33 U
Acenaphthylene				0.33 U	0.33 U	0.33 U	7.96	1.75
Anthracene	59,000	23,000		0.33 U	0.33 U	0.33 U	6.98	5.84
Benzo(a)anthracene	8	0.9		0.33 U	0.33 U	0.33 U	4.13	2.7
Benzo(b)fluoranthene	25	0.9		0.33 U	0.33 U	0.33 U	0.723	0.361
Benzo(k)fluoranthene	250	9		0.33 U	0.33 U	0.33 U	0.546	0.362
Benzo(g,h,I)perylene				0.33 U	0.33 U	0.33 U	0.496	0.33 U
Benzo(a)pyrene	82	0.09		0.33 U	0.33 U	0.33 U	0.924	0.437
Chrysene	800	88		0.33 U	0.33 U	0.33 U	4.45	2.96
Dibenzo[a,h]anthracene	7.6	0.09		0.33 U	0.33 U	0.33 U	0.33 U	0.33 U 0.33 U
Dibenzofuran				0.33 U	0.33 U	0.33 U 0.33 U	0.617 6.62	4.64
Fluoranthene	21,000	3,100		0.33 U	0.33 U	0.33 U 0.33 U	7.51	5.80
Fluorene	2,800	3,100		0.33 U 0.33 U	0.33 U 0.33 UJ	0.33 UJ	0.33 U	0,33 J
Hexachlorocyclopentadiene	2200	550	10	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U
Indeno(1,2,3-cd)pyrene	. 69	0.9		0.33 U	0.33 U	0.33 U	13.70	0.424 J
2-Methylnaphthalene	420			0.33 U	0.33 U	0.33 U	17.20	0.577
Naphthalene	5.6	3,100 130		0.33 U	0.33 U	0.33 U	0.33 U	0.33 U
N-nitrosodiphenylamine Phenanthrene	3.0	130		0.33 U	0.33 U	0.33 U	20.30	17.70
Pyrene	21,000	2,300		0.33 U	0.33 U	0.33 U	9.31	6.58 J
yrono	21,000	2,500 1	Priority	Pollutant Metals			<u> </u>	
Antimony	20	31		2.1 U	2.2 U	2 U	1.9 U	2.1 U
Arsenic*	120	13	750	9.3	8.8	3.7	8.2	6.4
Barium	1,800	5,500	690,000	35.9	58.2	43.9	34.9	50.4
Beryllium	130,000	160	1,300	0.59	0.72	0.69	0.53	0,67
Cadmium	590	78	1,800	0.21 U	0.51	0.44	0.19 U	0.21 U
Chromium***	28	390	270	17.2	20.6	21.7	16.1	20.7
Copper	330,000	2,900		35.8	26.4	29	25.9	29
Lead**		400		16.3	12.4	19.4	12.9	13.7
Mercury	32	23	10	0.04 U	0.04 U	0.04 U	0.07	0.04 U
Vickel	14,000	1,600	13,000	36.1	31.7	29.3	26.3	32.2
Selenium	2.4	390		0.55	0.91	0.51	0.49 U	0.53 U
Silver***	39	390		0.52 U	0.55 U	0.5 U	0.49 U	0.53 U
Thallium	34	6.3	-	1 U	1.1 U	1.2	0.97 U	1.1 U
Zinc	32,000	23,000		45.3	44	46.5	42.4	63.2
Total Cyanide (amenable)	120	1,600		NA	NA	NA	NA NA	NA
			SPLP Le	ad and Chromium				2.00== ==
PLP Lead	0.1			0.0075 U	0.0075 U	0.0075 U	0.0075 U	0.0075 U
SPLP Chromium	1.0			0.05 U	0.05 U	0.05 U	0.05 U	0.05 U

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- (4) Shaded values exceeded Tier 1 screening level
- (5) Toxicity criteria not available for exposure route (Illinois EPA 2001).
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- (7) *** No pH-dependent Class II value was available therefore the Class I value was used to evaluate this pathway.
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		Tier 1		Sample	Location and Dep	oth (feet below gro	und surface)/Conc	entration
		Remediation	1	B-16	B-16 Dup.	B-18	B-18	SS-12
		Objectives		10-12'	10-12'	6-8'	12-14'	0-2'
Compound/Analyte	Soil to GW	Ingestion	Inhalation	WT ~ NE	WT ~ NE	WT ~ NE	WT ~ NE	WT ~ NE
				TCL VOCs (mg/k	g)			
Benzene	0.17	22	0.8	0.005 UJ	0.005 U	72.1	0.46	0.005 UJ
Carbon Disulfide	160	7,800	720	0.005 UJ	0.005 U	0.25 U	0.005 U	0.005 UJ
Ethylbenzene	19	7,800	400	0.005 UJ	0.005 U	59.4	0.01	0.005 UJ
Styrene	18	16,000	1,500	0.005 UJ	0.005 U	0.15 U	0.005	0.005 UJ
Toluene	29	16,000	650	0.005 UJ	0.005 UJ	69.7	0.052 Ј	0.005 UJ
Xylenes	150	160,000	410	0.005 UJ	0.005 U	115	0.03 J	0.005 UJ
			1	CL SVOCs (mg/k			,	
Acenaphthene	2,900	4,700		0.33 UJ	NA	12.9 J	0.33 UJ	0.33 UJ
Acenaphthylene				0.33 U	NA	13.5	0.33 Ŭ	0.33 U
Anthracene	59,000	23,000		0.33 U	NA	21.1	0.33 U	0.33 U
Benzo(a)anthracene	8	0.9		0.33 U	NA	13.7	0.33 U	0.33 U
Benzo(b)fluoranthene	25	0.9		0.33 U	NA	1.19	0.33 U	0.33 U
Benzo(k)fluoranthene	250	9		0.33 U	NA	1.00	0.33 U	0.33 U
Benzo(g,h,I)perylene				0.33 U	NA	3.09	0.33 U	0.33 U
Benzo(a)pyrene	82	0.09		0.33 U	NA NA	1.64	0.33 U 0.33 UJ	0.33 U 0.33 U
Chrysene	800	88		0.33 U	NA NA	17.3	0.33 UJ	0.33 U
Dibenzo[a,h]anthracene	7.6	0.09			NA NA	0.33 U	0.33 UJ 0.33 UJ	0.33 U
Dibenzofuran				0.33 U	NA NA	23.4	0.33 UJ	0.33 U
Fluoranthene	21,000	3,100		0.33 U 0.33 U	NA NA	35.0	0.33 UJ	0.33 U
Fluorene	2,800	3,100			NA NA	0.33 UJ	0.33 UJ	0.33 UJ
Hexachlorocyclopentadiene	2200	550	10	0.33 UJ 0.33 U	NA NA	2.25	0.33 UJ	0.33 U
Indeno(1,2,3-cd)pyrene	69	0.9		0.33 UJ	NA NA	105	0.33 UJ	0.33 U
2-Methylnaphthalene			-	0.33 U	NA NA	107	0.33 UJ	0.33 U
Naphthalene	420 5,6	3,100		0.33	NA NA	0.33 U	0.33 UJ	0.33 U
N-nitrosodiphenylamine	3.6	130		0.33 U	NA NA	90.1	0.33 UJ	0.33 U
Phenanthrene Pyrene	21,000	2,300		0.33 U	NA NA	33.0	0.33 UJ	0.33 U
ryrene	21,000	2,300		Pollutant Metals		33.0	0.55 00 1	0.00
Antimony	20	31		2.1 U	NA NA	2.1 U	. 1.9 U	1.7
Arsenic*	120	13	750	8.3	NA	4.2	6.9	7.3
Barium	1,800	5,500	690,000	48.8	NA	51.6	48.8	66.3
Beryllium	130,000	160	1,300	0.61	NA	0.72	0.64	0.89
Cadmium	590	78	1,800	0.21 U	NA	0.43	0.44	0.4
Chromium***	28	390	270	19.1	NA	21.5	19.2	23.8
Copper	330,000	2,900		27.2	NA	26.1	27.3	25
Lead**		400		12.7	NA	11.8	11.6	39.2
Mercury	32	23	10	0.04 U	NA	0.04 U	0.1	0.04 U
Nickel	14,000	1,600	13,000	28.6	NA	29.7	30.4	30.8
Selenium	2.4	390	-	0.52 U	NA	0.51 U	0.5 U	0.7
Silver***	39	390		0.52 U	NA	0.51 U	0.48 U	0.48
Challium	34	6.3		1 U	NA	1.3	0.96	0.86
Zinc	32,000	23,000	-	39.6	NA	44.5	41.5	60.7
Total Cyanide (amenable)	120	1,600		NA	NA	NA	NA	NA
			SPLP Le	ad and Chromium	(mg/L)			
SPLP Lead	0.1		<u> </u>	0.0075 U	NA	0.0075 U	0.0075 U	0.013
SPLP Chromium	1.0			0.05 U	NA	0.05 U	0.005 U	0.05 U

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- (3) NA Not Analyzed
- (4) Shaded values exceeded Tier 1 screening level
- (5) -- Toxicity criteria not available for exposure route (Illinois EPA 2001)
- (6) ** No pH-dependent value was available so SPLP analyses from select samples was used to evaluate this pathway
- (7) *** No pH-dependent Class II value was available therefore the Class I value was used to evaluate this pathway.
- (8) * Calculated 95% upper confidence limit for arsenic at the site (9.007 mg/kg) is below the 13 mg/kg remediation objective



	7	Tier 1		Sannl	e Location and Dep	ıtlı (feet below a	round surface)/Co	ncentration
	1	Remediatio	n		Location and De	er (reer nerow 8	Tourie surrace)/C0	incentration
		Objectives		SS-12 Dup.				
Commound/Analyte	Coil to CV			0-2'	 			
Compound/Analyte	Soil to GW	Ingestion	Inhalation			<u> </u>		<u> </u>
				TCL VOCs (mg/	(kg)	·		
Benzene	0.17	22	0.8	0.005 U				
Carbon Disulfide	160	7,800	720	0.005 U				-
Ethylbenzene	19	7,800	400	0.005 U				<u> </u>
Styrene	18	16,000	1,500	0.005 U	<u> </u>			
Toluene	29	16,000	650	0.005 U				
Xylenes	150	160,000	410	0.005 U			<u> </u>	
	n	т		TCL SVOCs (mg	/kg)	Ţ		· · · · · · · · · · · · · · · · · · ·
Acenaphthene	2,900	4,700		0.33 U				
Acenaphthylene		<u> </u>		0.33 U				<u> </u>
Anthracene	59,000	23,000		0.33 U		ļ		
Benzo(a)anthracene	8	0.9	-	0.33 U				
Benzo(b)fluoranthene	25	0.9		0.33 U	-			
Benzo(k)fluoranthene	250	9		0.33 U				<u> </u>
Benzo(g,h,I)perylene				0.33 U	ļ			
Benzo(a)pyrene	82	0.09		0.33 U				
Chrysene	800	88		0.33 U	<u> </u>			
Dibenzo[a,h]anthracene	7.6	0.09		0.33 U				
Dibenzofuran				0.33 U				
Fluoranthene	21,000	3,100		0.33 U				
Fluorene	2,800	3,100	-	0.33 U				
Hexachlorocyclopentadiene	2200	550	10	0.33 U				
Indeno(1,2,3-cd)pyrene	69	0.9		0.33 U	<u> </u>		<u> </u>	
2-Methylnaphthalene				0.33 U				
Naphthalene	420	3,100		0.33 U			<u> </u>	<u> </u>
N-nitrosodiphenylamine	5.6	130		0.33 U				
Phenanthrene				0.33 U				
Pyrene	21,000	2,300		0.33 U	<u> </u>		<u> </u>	<u> </u>
A - 4	20	2. 1	Priorit	y Pollutant Metals	(mg/kg)			· · · · · · · · · · · · · · · · · · ·
Antimony Arsenic*	20	31		1.8 U			 	
	120	13	750	7.9				
Barium Beryllium	1,800	5,500	690,000	57.8				
Cadmium	130,000	160	1,300	0.8				ļ
Chromium***	590	78	1,800	0.39			ļ	
	28	390	270	22.2				
Copper Lead**	330,000	2,900		23.7			ļ	
		400		24.3			ļ	
Mercury	32	. 23	10	0.1			 	
Nickel Selenium	14,000	1,600	13,000	31.8	<u> </u>			
Silver***	2.4 39	390		0.52				
Thallium	39	390		0.45 U				
linc		6.3		0.91 U			ļ	
otal Cyanide (amenable)	32,000	23,000		49.6			ļ	
otai Cyanide (amenabie)	120	1,600		NA			1	
III	0 : "			ead and Chromiur	n (mg/L)			
PLP Lead PLP Chromium	0.1			0.017	1			
FLF Cironnum	1.0	<u></u> l		0.05 U			<u> </u>	

- (1) U Indicates compound/analyte was analyzed for but not detected, the associated value is the sample reporting limit.
- (2) J Indicates an estimated value
- (3) NA Not Analyzed
- (4) Shaded values exceeded Tier 1 screening level
- (5) -- Toxicity criteria not available for exposure route (Illinois EPA 2001).
- (6) ** No pH-dependent value was available so SPLP analyses from select samples was used to evaluate this pathway
- (7) *** No pH-dependent Class II value was available therefore the Class I value was used to evaluate this pathway.
- (8) * Calculated 95% upper confidence limit for arsenic at the site (9.007 mg/kg) is below the 13 mg/kg remediation objective.

Table 2 Final Remediation Objectives - Soil Rogers Park Pond Parcel

		Remediation	.	Final
		Objectives		Remediation
Compound/Analyte	Soil to GW	Ingestion	Inhalation	Objective
	TCL VOCs	(mg/kg)		
Benzene	0.17	0.8	0.17	
Ethylbenzene	19	7,800	400	19
Toluene	29	16,000	650	29
Benzo[a]anthracene	8	0.9		0.9
Benzo[b]fluoranthene	25	0.9		0.9
Benzo[k]fluoranthene	250	9		9
Benzo[a]pyrene	82	0.09		0.09
Chrysene	800	88		88
Dibenzo[a,h]anthracene	7.6	0.09		0.09
Indeno[1,2,3-cd]pyrene	69	0.9		0.9
Prior	ity Pollutant	Metals (mg/l	(g)	
Chromium***	28	390	270	28
Lead**		400	<u> </u>	400
SPLP	Lead and Cl	nromium (mg	g/L)	
SPLP Lead	0.1		<u></u>	0.1
SPLP Chromium	1.0	<u> </u>	<u> </u>	1.0

- (1) ** No pH-dependent value was available so SPLP analyses from select samples was used to evaluate this pathway.
- (2) *** No pH-dependent Class II value was available therefore the Class I value was used to evaluate this pathway.

Table 3
Meterological Data During Excavation
Rogers Park Pond Parcel

		Outside	Wind	High Wind	Wind	Barometer
Date	Time	Temperature (°F)	Speed (mph)	Speed (mph)	Direction (1)	Pressure (in-Hg)
7/19/01	3:00p		3	12	NW	30.029
7/19/01	3:30p		4	12	NW	30.019
7/19/01	4:00p		4	10	NW	30.013
7/20/01	7:00a		0	0		30.048
7/20/01	12:00p		3	8	NNW	29.954
7/20/01	4:00p		4	11	NW	29.906
7/23/01	7:00a		3	8	ENE	29.832
7/23/01	12:00p		4	9	E	29.836
7/23/01	4:00p		2	9	NW	29.845
7/24/01	7:00a		0	2	NE	29.864
7/24/01	12:00p		3	9	NW	29.877
7/24/01	4:00p		3	10	NW	29.836
7/25/01	7:00a		4	9	W	29.849
7/25/01	12:00p		6	14	W	29.882
7/25/01	4:00p		8	20	W	29.889
7/26/01	7:00a		2	7	WNW	30.031
7/26/01	12:00p		5	13	WNW	30.115
7/26/01	4:00p		7	16	W	30.12
7/27/01	7:00a		3	9	N	30.198
7/27/01	12:00p		3	9	NNW	30.191
7/27/01	4:00p		4	11	NW	30.129
7/30/01	7:00a		1	3	W	29.975
7/30/01	12:00p	81.1	3	9	N	29.983
7/30/01	4:00p		4	9	N	29.96
7/31/01	7:00a		2	6	ENE	30.069
7/31/01	12:00p		3	12	Е	30.068
7/31/01	4:00p	elos.	5	15	N	30.037
8/01/01	7:00a		4	11	ENE	30.112
8/01/01	12:00p		6	15	NNE	30.125
8/01/01	4:00p		5	11	NE	30.088
8/02/01	7:00a		2	10	NW	30.116
8/02/01	12:00p		1	7	ESE	30.101
8/02/01	4:00p		1	5	W	30.067
8/03/01	7:00a		2	5	NE	30.013
8/03/01	12:00p		3	10	SW	30.032
8/03/01	4:00p		5	9	SW	29.983
8/06/01	7:00a		0	4	N	30.113
8/06/01	12:00p		4	14	NE	30.113
8/06/01	4:00p		4	13	NE	30.041
8/07/01	7:00a		2	7	ENE	30.069
8/07/01	12:00p		6	13	SE	30.048
8/07/01	4:00p		2	7	W	29.99
8/08/01	7:00a		2	6	ENE	29.991
8/08/01	12:00p		5	11	NE	29.965
8/08/01	4:00p		6	14	NNE	29.891
8/09/01	7:00a		2	5	N	29.853
8/09/01	12:00p	93.9	5	14	NE	29.79
8/09/01	4:00p		7	19	NNE	29.712
8/10/01	7:00a		7	16	SSW	29.92
8/10/01	12:00p		7	17	S	29.994
Notes:						

Notes

however, after this time, the wind direction given is the direction the wind is blowing from

⁽¹⁾ The wind direction given until September 4, 2001, is the direction the wind is blowing to and not from,

⁽²⁾ mph - miles per hour

^{(3) °}F - degrees Fahrenheit

⁽⁴⁾ in-Hg - inches of mercury

Table 3 (Continued) Meterological Data During Excavation Rogers Park Pond Parcel

		Outside	Wind	High Wind	Wind	Barometer
Date	Time	Temperature (°F)	Speed (mph)	Speed (mph)	Direction (1)	Pressure (in-Hg)
8/10/01	4:00p		7	16	SSW	30.006
8/13/01	7:00a	70.9	6	13	SSW	30.071
8/13/01	12:00p	73	9	19	SW	30.138
8/13/01	4:00p	75	8	21	SSW	30.119
8/14/01	7:00a		3	6	SE	30.117
8/14/01	12:00p		5	14	SW	30.088
8/14/01	4:00p		3	8	SW	30.043
8/15/01	7:00p		0	2	NNE	29.954
8/15/01	12:00p		4	11	NNE	29.895
			4	8	SE	29.891
8/15/01	4:00p		6	13	N N	29.634
8/16/01	7:00a		8	15	SE	29.694
8/16/01	12:00p		6	14	E	29.784
8/16/01	4:00p		2	8	ESE	29.764
8/17/01	7:00a				ESE	29.983
8/17/01	12:00p		7	16	NNE	29.951
8/17/01	4:00p		5	10	SE	29.985
8/20/01	7:00a		3	6		
8/20/01	12:00p		7	15	SSW SW	30.019
8/20/01	4:00p		4	11		29.998
8/21/01	7:00a		0	2	NNW	30.043
8/21/01	12:00p		7	17	N	30.013
8/21/01	4:00p		9	20	N	29.912
.8/22/01	7:00a		4	9	N	29.869
8/22/01	12:00p		10	21	N	29.864
8/22/01	4:00p		5	12	SSW	29.857
8/23/01	7:00a		1	3	ENE	29.931
8/23/01	12:00p	22	6	11	SW	29.994
8/23/01	4:00p		4	10	SW	30.013
8/24/01	7:00a		0	2	SSW	30.06
8/24/01	12:00p		2	6	W	30.034
8/24/01	4:00p		4	13	SW	29.989
8/27/01	7:00a		0	3	SE	29.943
8/27/01	12:00p		6	13	NNE	29.84
8/27/01	4:00p		6	16	NNE	29.776
8/28/01	7:00a		3	10	ESE	29.881
8/28/01	12:00p		5	11	SW	29.96
8/28/01	4:00p		4	11	SW	29.958
8/29/01	7:00a		0	0		30.012
8/29/01	12:00p		2	8	NW	29.989
8/29/01	4:00p		3	7	W	29.965
8/30/01	7:00a		4	9	N	29.803
8/30/01	12:00p		6	18	NNE	29.768
8/30/01	4:00p		5	13	ENE	29.729
8/31/01	7:00a		2	5	NE	29.776
8/31/01	12:00p		6	13	S	29.851
8/31/01	4:00p		0	0		29.96
9/04/01	7:00a		0	0		30.063
9/04/01	12:00p		6	15	N	ىر30.147
9/04/01	4:00p		8	17	N	30.143
9/05/01	7:00a		2	5	ESE	30.218
9/05/01	12:00p		4	9	ESE	30.23
9/05/01	4:00p		4	10	NE	30.169

Notes

⁽¹⁾ The wind direction given until September 4, 2001, is the direction the wind is blowing to and not from, however, after this time, the wind direction given is the direction the wind is blowing from

⁽²⁾ mph - miles per hour

^{(3) °}F - degrees Fahrenheit

⁽⁴⁾ in-Hg - inches of mercury

Table 3 (Continued) Meterological Data During Excavation Rogers Park Pond Parcel

		Outside	Wind	High Wind	Wind	Barometer
Date	Time	Temperature (°F)		Speed (mph)		Pressure (in-Hg)
	7:00a	Temperature (F)	3	8	SE SE	30.127
9/06/01	/:00a 10:00a	79.5	6	12	SE SE	30.127
9/06/01	8:00a	79.5	4	11	SSE	29.806
9/07/01	12:00p		8	17	SSE	29.771
9/07/01	4:00p		10	26	SE	29.7
9/10/01	7:00p		2	5	SW	30.141
9/10/01	12:00p		7	20	S	30.14
9/10/01	4:00p		6	15	WSW	30.146
9/11/01	7:00a		0	0		30.312
9/11/01	12:00p		4	10	Е	30.29
9/11/01	4:00p		3	10	Е	30.221
9/12/01	7:00a		2	6	SE	30.169
9/12/01	12:00p		5	11	S	30.121
9/12/01	4:00p		5	11	SW	30.059
9/13/01	7:00a		5	16	NNE	30.206
9/13/01	12:00p		8	21	N	30.264
9/13/01	4:00p		7	17	N	30.278
9/14/01	7:00a		4	13	ENE	30.412
9/14/01	12:00p		6	15	ENE	30.413
9/14/01	4:00p		5	13	NE	30.346
9/17/01	7:00a		1	3	SSE	30.066
9/17/01	12:00p		3	6	SW	30.07
9/17/01	4:00p	a7 ta	3	8	N	30.024
9/18/01	7:00a		0	3	NNE	30.015
9/18/01	12:00p		4	12	ENE	30.002
9/18/01	4:00p		4	10	N	29.951
9/19/01	7:00a		5	13	SSE	29.557
9/19/01	12:00p		4	9	SSW	29.566
9/19/01	4:00p		8	18	WNW	29.661
9/20/01	7:00a	,	2	4	SW	29.932
9/20/01	12:00p		7	20	WNW	29.952
9/20/01	4:00p		3	9	SW	29.908
9/21/01	7:00a		2	5	WSW	29.827
9/21/01	12:00p		6 4	14	NW N	29.883 29.928
9/21/01	4:00p	47.9	8	19	NNW	30.142
9/24/01	7:00a	47.8		28	NNW	30.142
9/24/01	12:00p 4:00p		11	26	NNW	30.196
	7:00a		7	14	NW	30.167
9/25/01 9/25/01	7:00a 12:00p		9	21	NW	30.143
9/25/01	4:00p		5	12	N	30.078
9/25/01	7:00a		5	14	WNW	29.993
9/26/01	12:00p		6	16	WNW	29.964
9/26/01	4:00p		10	20	WNW	29.93
9/20/01	4.00p		10	20	*******	27.75

Notes

The wind direction given until September 4. 2001, is the direction the wind is blowing to and not from, owever, after this time, the wind direction given is the direction the wind is blowing from

⁽²⁾ mph - miles per hour

^{(3) °}F - degrees Fahrenheit

⁽⁴⁾ in-Hg · inches of mercury

Table 4 Pre-Excavation Air Sampling Analytical Results Rogers Park Pond Parcel

				Concentration (ppbv)		
Date Sampled	Sample ID	Benzene	Toluene	Ethyl Benzene	m,p-Xylene	o-Xylene
07/20/2001	RPM-E-SUM-07-20-01	1.2 U	2.7	1.2 U	1.3	1.2 U
	RPM-S-SUM-07-20-01	1.2 U	9.1	1.2 U	1.8	1.2 U
	RPM-W-SUM-07-20-01	1.2 U	5.2	1.2 U	2.3	1.2 U
07/23/2001	RPM-E-SUM-07-23-01	1.1 U	1.5	1.1 U	1.1	1.1 U
	RPM-S-SUM-07-23-01	1.5	3.8	1.2	4.1	1.9
'i	RPM-N-SUM-07-23-01	0.88 U	1.5	0.88 U	1.4	0.88 U
	RPM-W-SUM-07-23-01	2.6	4.5	1 U	2.3	1.3
07/24/2001	RPM-N-SUM-07-24-01	0.94 U	1.1	0.94 U	0.94 U	0.94 U
	RPM-S-SUM-07-24-01	0.94 U	1	0.94 U	1	0.94 U
	RPM-W-SUM-07-24-01	0.94 U	1.3	0.94 U	1	0.94 U
	RPM-E-SUM-07-24-01	0.98 U	1.7	0.98 U	1.5	0.98 U

⁽¹⁾ U - Indicates compund/analyte was analyzed for but not detected, the associated value is the sample reporting limit

⁽²⁾ ppbv - parts per billion by volume

Table 5 **Excavation Air Sampling Analytical Results** Rogers Park Pond Parcel

T						Concentra	ation (ppbv)				
		Be	nzene	To	luene		benzene		Xylene		ylene
		Action	Analytical	Action	Analytical	Action	Analytical	Action	Analytical	Action	Analytica
Date Sampled	Sample ID	Level	Result	Level	Result	Level	Result	Level	Result	Level	Result
07/25/2001	RPM-W-SUM-07-25-01	39	0.92 U	2,211	0.92 U	4,883	0.92 U		0.92 U		0.92 U
07/26/2001	RPM-N-SUM-07-26-01	39	0.92 U	2,211	0.92 U	4,883	0.92 U		0.92 U		0.92 U
0772072001	RPM-W-SUM-07-26-01	39	0.92 U	2,211	0.92 U	4,883	0.92 U		0.92 U		0.92 U
07/27/2001	RPM-N-SUM-07-27-01	39	0.98 U	2,211	0.98 U	4,883	0.98 U		0.98 U		0.98 L
ľ	RPM-S-SUM-07-27-01	39	0.98 U	2,211	0.98 U	4,883	0.98 U		0.98 U		0.98 L
İ	RPM-E-SUM-07-27-01	39	9.6	2,211	1.7	4,883	2.1		2.9		1.4
	RPM-W-SUM-07-27-01	39	1 U	2,211	1 U	4,883	1 U		1 U		1 U
07/30/2001	RPM-S-SUM-07-30-01	39	1.1	2,211	0.98 U	4,883	0.98 U		0.98 U		0.98 L
	RPM-E-SUM-07-30-01	39	1.3	2,211	1 U	4,883	1 U		1 U		1 U
07/31/2001	RPM-N-SUM-07-31-01	39	2.2	2,211	1.2	4,883	0.98 U		0.98 U		0.98 L
	RPM-E-SUM-07-31-01	39	3.6	2,211	1.2	4,883	1 U		1.3		1 U
•	RPM-E-ERI-SUM	39	3.88 J	2,211	0.85 J	4,883	2.44 J		1.97 J		0.87 J
08/01/2001	RPM-N-SUM-08-01-01	39	0.96 U	2,211	0.96	4,883	0.96 U		0.96 U		0.96 U
00/01/2001	RPM-S-SUM-08-01-01	39	1.2	2,211	1	4,883	0.94 U		11		0.94 t
Ì	RPM-E-SUM-08-01-01	39	2.7	2,211	1.1	4,883	0.96 U		0.99		0.96 L
ì	RPM-W-SUM-08-01-01	39	0.96 U	2,211	1.6	4,883	0.96 U		1		0.96 U
ŀ	RPM-N-ERI-SUM	39	3.82	2,211	2.14	4,883	0.72		1.4		0.58
08/02/2001	RPM-N-SUM-08-02-01	39	3.3	2,211	3.2	4,883	1 U		2.5		1
00/02/2001	RPM-S-SUM-08-02-01	39	7.9	2,211	18	4,883	3.8		21		5.9
	RPM-E-SUM-08-02-01	39	15	2,211	6.6	4,883	3.9		5.7		2.4
	RPM-W-SUM-08-02-01	39	10	2,211	8.2	4,883	2.6		11		3
08/03/2001	RPM-S-SUM-08-03-01	39	2.1	2,211	1.2	4,883	1 U		1.3		1 U
00,00,2001	RPM-W-SUM-08-03-01	39	1.6	2,211	1.9	4,883	1 U		1.2	<u> </u>	1 (
08/06/2001	RPM-N-SUM-08-06-01	39	8.5	2,211	4.8	4,883	1.5		3.2		1.4
00/00/2001	RPM-S-SUM-08-06-01	39	1.2	2,211	2.5	4,883	0.98 U		1.6		0.98 U
	RPM-E-SUM-08-06-01	39	17	2,211	6.7	4,883	3		5.4		2.7
	RPM-W-SUM-08-06-01	39	1.3	2,211	2.1	4,883	1 U		1.2		1 1
08/07/2001	RPM-N-SUM-08-07-01	39	3.4	2,211	2.4	4,883	0.98 U		1.9		0.98
00/01/2007	RPM-S-SUM-08-07-01	39	1.8	2,211	1.8	4,883	0.98 U		1.6		0.98 1
	RPM-E-SUM-08-07-01	39	23	2,211	12	4,883	2.5		7		2.7
	RPM-W-SUM-08-07-01	39	3.9	2,211	3.6	4,883	1 U		1.8		1 1
08/08/2001	RPM-N-SUM-08-08-01	39	8.6	2,211	5.4	4,883	1.3		3.7		1.4 .
00/00/2001	RPM-E-SUM-08-08-01	39	37	2,211	16	4,883	5.7		13		5.
08/09/2001	RPM-N-SUM-08-09-01	39	4.8	2,211	3.7	4,883	1 U		2.6		1.2
00/09/2001	RPM-S-SUM-08-09-01	39	1.1 U	2,211	1.3	4,883	1.1 U		1.3		1.1
	RPM-E-SUM-08-09-01	39	6.6	2,211	4.1	4,883	1.4		4.3	<u> </u>	1.7
	RPM-W-SUM-08-09-01	39	1.1 U	2,211	1.3	4,883	1.1 U		2.5	<u> </u>	1.5
08/10/2001	RPM-S-SUM-08-10-01	39	2	2,211	2	4,883	1.2		1.2 U	<u> </u>	1.2
00.10.2001	RPM-W-SUM-08-10-01	39	1.2 U	2,211	1.2 U	4,883	1.2 U		1.2 U	 	1.2
08/13/2001	RPM-S-SUM-08-13-01	39	2.6	2,211	1.1	4,883	0.96 U		0.96 U	<u> </u>	0.96
55/15/2001	RPM-W-SUM-08-13-01	39	0.96 U	2,211	0.96 U	4,883	0.96 U		1.5	<u> </u>	0.96
08/14/2001	RPM-N-SUM-08-14-01	39	1.1 U	2,211	1.3	4,883	1.1 U		1.1 U		1.1
55/17/2001	RPM-S-SUM-08-14-01	39	1.1 U	2,211	1.2	4,883	1.1 U		1.3		1.1
	RPM-E-SUM-08-14-01	39	0.88 U	2,211	1.2	4,883	0.88 U		1.3		0.88
	RPM-W-SUM-08-14-01	39	1.1 U	2,211	1.2	4,883	1.1 U		1.7		1.1
08/15/2001	RPM-N-SUM-08-15-01	39	1	2,211	1.9	4,883	1 U		1 U	 -	1
00/13/2001	RPM-E-SUM-08-15-01	39	1 U	2,211	2.4	4,883	1 U		1 U	<u> </u>	1
	RPM-W-SUM-08-15-01	39	1 U	2,211	3.2	4,883	1 U	-	1.3		1

NOTES:
(1) U - Indicates compund/analyte was analyzed for but not detected, the associated value is the sample reporting limit
(2) J - Indicates estimated value
(3) ppbv - parts per billion by volume

Table 5 (Continued) **Excavation Air Sampling Analytical Results Rogers Park Pond Parcel**

						Concentra	ation (ppbv)				
		Be	nzene	То	luene	Ethyll	penzene	m,p-	Xylene	o-X	ylene
		Action	Analytical	Action	Analytical	Action	Analytical	Action	Analytical	Action	Analytical
Date Sampled	Sample ID	Level	Result	Level	Result	Level	Result	Level	Result	Level	Result
08/16/2001	RPM-N-SUM-08-16-01	39	1 U	2,211	1.8	4,883	1 U		1		1 U
	RPM-S-SUM-08-16-01	39	1 U	2,211	1.4	4,883	1 U		1 U		1 U
	RPM-E-SUM-08-16-01	39	1 U	2,211	1.3	4,883	1 U		1 U		1 U
08/17/2001	RPM-N-SUM-08-17-01	39	1 U	2,211	1 U	4,883	1 U		1 U		1 U
	RPM-S-SUM-08-17-01	39	1 U	2,211	1.2	4,883	1 U		1 U		1 U
	RPM-E-SUM-08-17-01	39	1 U	2,211	1 U	4,883	1 U		1 U		1 U 1 U
	RPM-W-SUM-08-17-01	39	1 U	2,211	1 J	4,883	1 U		1 U		1 U
08/20/2001	RPM-S-SUM-08-20-01	39	1 U	2,211	1 U	4,883	1 U		1 U		
Ī	RPM-E-SUM-08-20-01	39	0.96 U	2,211	1.2	4,883	0.96 U		0.96 U		0.96 U
ĺ	RPM-W-SUM-08-20-01	39	1 U	2,211	1.2	4,883	1 U		1.4	:	1 U
08/21/2001	RPM-N-SUM-08-21-01	39	0.96 U	2,211	2.3	4,883	0.96 U		1.7		0.96 U
	RPM-E-SUM-08-21-01	39	0.96 U	2,211	2.3	4,883	0.96 U		1.1		0.96 U
08/22/2001	RPM-N-SUM-08-22-01	39	1 U	2,211	1.6	4,883	1 U		1 U		1 U
	RPM-S-SUM-08-22-01	39	1 U	2,211	5.3	4,883	1 U		1 U		1 U
ĺ	RPM-E-SUM-08-22-01	39	1 U	2,211	5	4,883	1 U		1 J	<u> </u>	1 U
l	RPM-W-SUM-08-22-01	39	1 U	2,211	4.9	4,883	1 U		1 U		0.98 U
08/23/2001	RPM-N-SUM-08-23-01	39	0.98 U	2,211	0.98 U	4,883	0.98 U		0.98 U		
	RPM-S-SUM-08-23-01	39	0.98 U	2,211	2.3	4,883	0.98 U		0.98 U		0.98 U
	RPM-E-SUM-08-23-01	39	0.98 U	2,211	3.3	4,883	3.2		11		0.98 U
	RPM-W-SUM-08-23-01	39	0.98 U	2,211	1.9	4,883	0.98 U		0.98 U		5.8
08/24/2001	RPM-N-SUM-08-24-01	39	1.1 U	2,211	2.8	4,883	2.7		10		1.1 U
	RPM-S-SUM-08-24-01	39	1.1 U	2,211	6.1	4,883	1.1 U		1.1 U		4.4
	RPM-E-SUM-08-24-01	39	1.1 U	2,211	2.6	4,883	2.2		8.2		1.1 U
	RPM-W-SUM-08-24-01	39	1.1 U	2,211	1.1 U	4,883	1.1 U		1.1 U		1.1 U
08/27/2001	RPM-N-SUM-08-27-01	39	1 U	2,211	2	4,883	1 U		1 U		2.6 J
	RPM-S-SUM-08-27-01	39	1 U	2,211	2.3	4,883	1 U		3.6		2.6 J
	RPM-E-SUM-08-27-01	39	1 U	2,211	2.1	4,883	1 U		1 U		1 U
	RPM-W-SUM-08-27-01	39	1 U	2,211	2	4,883	1 U				1 U
08/28/2001	RPM-S-SUM-08-28-01	39	1 U	2,211	1 U	4,883	1 U		1 U		1 U
	RPM-W-SUM-08-28-01	39	1 U	2,211	1 U	4,883	1 U				1 U
08/29/2001	RPM-N-SUM-08-29-01	39	1 U	2,211	5.5	4,883	1.6		1.1		1 U
	RPM-W-SUM-08-29-01	39	1.3	2,211	2.1	4,883	1 U		1 U		1 U
08/30/2001	RPM-N-SUM-08-30-01	39	1 U	2,211	1.7	4,883	1 U		1.8		1.2 U
	RPM-S-SUM-08-30-01	39	1.2 U	2,211	1.9	4,883	1.2 U		1.8 1.2 U		1.2 U
	RPM-E-SUM-08-30-01	39	1.2 U	2,211	1.8	4,883	1.2 U		1.2 U	<u> </u>	1.2 U
	RPM-W-SUM-08-30-01	39	1.2 U	2,211	1.6	4,883	1.2 U		1.2 U		1.1 U
08/31/2001	RPM-S-SUM-08-31-01	39	1.1 U	2,211	1.1 U	4,883	1.1 U		0.96 U		0.96 U
09/04/2001	RPM-S-SUM-09-04-01	39	0.96 U	2,211	0.96 U	4,883	0.96 U		1 U		1 U
09/05/2001	RPM-N-SUM-09-05-01	39	1 U	2,211	1 U	4,883	1 U		1 U	 	1 U
	RPM-S-SUM-09-05-01	39	1 U	2,211	1 U	4,883	1 U		1 U	<u></u>	1 U
	RPM-E-SUM-09-05-01	39	1 U	2,211	l l	4,883	1 U				0.98 U
	RPM-W-SUM-09-05-01	39	0.98 U	2,211	0.98 U	4,883	0.98 U		0.98 U		1.1 U
09/06/2001	RPM-N-SUM-09-06-01	39	1.1 U	2,211	2.4	4,883	1.1 U		1.1 U		1.1 U
	RPM-W-SUM-09-06-01	39	1.1	2,211	2.8	4,883	1.1 U	<u> </u>	1.2 1.1 U		1.1 U
09/07/2001	RPM-N-SUM-09-07-01	39	1.1 U	2,211	1.1 U	4,883	1.1 U			 	1.1 U
	RPM-W-SUM-09-07-01	39	1.1 U	2,211	1.3	4,883	1.1 U		1.1 U		1.10

NOTES:

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(2) J - Indicates estimated value
(3) ppbv - parts per billion by volume

Table 5 (Continued) **Excavation Air Sampling Analytical Results Rogers Park Pond Parcel**

						Concentr	ation (ppbv)				
		Be	nzene	To	luene	Ethyl	benzene	m,p-	Xylene		ylene
		Action	Analytical	Action	Analytical	Action	Analytical	Action	Analytical	Action	Analytical
Date Sampled	Sample ID	Level	Result	Level	Result	Level	Result	Level	Result	Level	Result
09/10/2001	RPM-N-SUM-09-10-01	- 39	0.98 U	2,211	1.4	4,883	0.98 U		0.98 U		0.98 U
	RPM-S-SUM-09-10-01	39	0.98 U	2,211	1.1	4,883	0.98 U		0.98 U		0.98 U
	RPM-E-SUM-09-10-01	39	0.96 U	2,211	1	4,883	0.96 U		0.96 U		0.96 U
	RPM-W-SUM-09-10-01	39	0.98 U	2,211	1.2	4,883	0.98 U		0.98 U		0.98 U
09/11/2001	RPM-N-SUM-09-11-01	39	0.98 U	2,211	3	4,883	0.98 U		2.4		1.3
ļ	RPM-W-SUM-09-11-01	39	1 U	2,211	2.6	4,883	1 U		1 U		1 U
09/12/2001	RPM-N-SUM-09-12-01	39	1 U	2,211	1.2	4,883	1 U		1 U		1 U
	RPM-W-SUM-09-12-01	39	1 U	2,211	1.5	4,883	1 U		1.1		1 U
09/13/2001	RPM-N-SUM-09-13-01	39	1 U	2,211	2	4,883	1 U		1 U		1 U
Ì	RPM-S-SUM-09-13-01	39	0.88 U	2,211	4.9	4,883	0.88 U		0.88 U		0.88 U
İ	RPM-E-SUM-09-13-01	39	1.U	2,211	1 U	4,883	1 U		1 U		1 U
ľ	RPM-W-SUM-09-13-01	39	1 U	2,211	1 U	4,883	1 U		1 U		1 U
09/14/2001	RPM-S-SUM-09-14-01	39	1.1 U	2,211	5.2	4,883	6.3		25		11
Ì	RPM-W-SUM-09-14-01	39	0.96 U	2,211	4.8	4,883	6.7		26		13
09/19/2001	RPM-N-SUM-09-19-01	39	0.98 U	2,211	1.3	4,883	0.98 U		0.98 U		0.98 U
	RPM-S-SUM-09-19-01	39	0.98 U	2,211	1.2	4,883	0.98 U		0.98 U		0.98 U
ļ	RPM-E-SUM-09-19-01	39	0.98 U	2,211	1.3	4,883	0.98 U		0.98 U		0.98 U
	RPM-W-SUM-09-19-01	39	0.98 U	2,211	1.3	4,883	0.98 U		0.98 U		0.98 U
09/20/2001	RPM-N-SUM-09-20-01	39	1 U	2,211	1 U	4,883	1 U		1 U		1 U
	RPM-S-SUM-09-20-01	39	1 U	2,211	1	4,883	1 U		1 U		1 U
Ì	RPM-E-SUM-09-20-01	39	1 U	2,211	1 U	4,883	1 U		1 U		1 U
09/21/2001	RPM-N-SUM-09-21-01	39	1.1 U	2,211	1.1 U	4,883	1.1 U		1.1 U		1.1 U
ľ	RPM-S-SUM-09-21-01	39	1.1 U	2,211	1.1 U	4,883	1.1 U		1.1 U		1.1 U
ļ	RPM-E-SUM-09-21-01	39	1.1 U	2,211	1.1	4,883	1.1 U		1.1 U		1.1 U
ļ	RPM-W-SUM-09-21-01	39	1.1 U	2,211	1.1 U	4,883	1.1 U		1.1 U		1.1 U
09/24/2001	RPM-S-SUM-09-24-01	39	0.86 U	2,211	0.86 U	4,883	0.86 U		0.86 U		0.86 U
	RPM-E-SUM-09-24-01	39	0.92 U	2,211	0.92 U	4,883	0.92 U		0.92 U		0.92 U
09/25/2001	RPM-S-SUM-09-25-01	39	0.94 U	2,211	0.94 U	4,883	0.94 U		0.94 U		0.94 U
	RPM-E-SUM-09-25-01	39	0.94 U	2,211	0.94 U	4,883	0.94 U		0.94 U		0.94 U
09/26/2001	RPM-N-SUM-09-26-01	39	0.96 U	2,211	0.96 U	4,883	0.96 U		0.96 U		0.96 U
ľ	RPM-S-SUM-09-26-01	39	0.94 U	2,211	0.94 U	4,883	0.94 U		0.94 U		0.94 U
ľ	RPM-E-SUM-09-26-01	39	0.96 U	2,211	0.96 U	4,883	0.96 U		0.96 U		0.96 U
	RPM-W-SUM-09-26-01	39	0.96 U	2,211	0.96 U	4,883	0.96 U		0.96 U	<u> </u>	0.96 U

NOTES:
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		RPP-CS04	-004	09/21/2001		NA	NA	NA	NA	NA		0.031 U	0.031 U	0.031 U	0.031 U	0.031 U	0.031 U	0.031 U	0.031 U	0.031 U	0.031 U	0.031 U	0.031 U	0.031 U	0.031 U	0.031 U	0.031 U		NA	NA	NA		NA	NA	NA
	entration	RPP-CS04	-003	06/28/2001		NA	NA	NA	NA	NA		060'0	2.09	0.362	2.91	1.62	1.16	0.480	2.01	3.01	0.378	2.29	0.217	0.512	0.088	0.329	4.520		NA	NA	NA		NA	NA	0.008
	nd surface)/Conc	RPP-CS04	-002	06/25/01		NA	NA	NA	NA	NA		0.078	0.99	0.501	908.0	0.331	0.491	. 0.295	0.584	0.895	0.142	1.75	0.252	0.305	0.028	0.981	1.68		NA	NA	NA		NA	NA	NA
Results	Sample Location and Depth (feet below ground surface)/Concentration	RPP-CS04	-001	06/21/01		NA	NA	NA	NA	NA	70C SIM (mg/kg)	0.025 U	0.106	0.133	0.565	0.598	0.336	0.273	0.430	0.642	0.139	0.693	0.025 U	0.254	0.025 U	0.295		3)	0.678 J	21.8	151	g/L)	0.010 UJ	0.017	0.223
Table 6 Remediation Objectives and ation Soil Sampling Analytical Rogers Park Pond Parcel	cation and Depth	RPP-CS03	-001	06/26/01	BTEX/Styrene (mg/kg)	NA	NA	NA	NA			0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	Total Metals Method 6020 (mg/kg)	0.844	21.1	22.6	od 1312/6020 (mg/L		0.014	0.007
Table 6 Remediation Objectives and Confirmation Soil Sampling Analytical Results Rogers Park Pond Parcel	Sample Lo	RPP-CS02	-001	06/26/01	BTEX/Styr	NA	NA	NA	NA	NA	Aromatic Hydrocarbons Method 82	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	, 0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	Total Metals Me	0.707	19.5	21.0	SPLP Metals Method	0.01 U	0.307	0.117
Confi		RPP-CS01	-001	06/21/01		NA	NA	NA	NA		al	0.025 U	0.025 U	0.025 U	0.051	0.033	0.038	0.026	0.043	0.061	0.025 U	0.064	0.025 U	0.026	0.025 U	0.029	0.065		0.733 J	19.3	234	S	0.010 J	0.041	0.025
		Remediation	Objectives			0.17	29	19	N.	NA NA		NR	NR.	NR.	6.0	6:0	6	NR	0.09	88	60:0	NR	KK KK	0.0	N.	NR.	NR		NR	28	400		NR		0.1
			Compound/Analyte			Benzene	Toluene	Ethyl Benzene	Xylenes (total)	Styrene	-	Acenaphthene	Acenaphthylene	Anthracene	Benzo[a]anthracene	Benzo[b]fluoranthene	Benzo[k]fluoranthene	Benzo[g,h,i]perylene	Benzo[a]pyrene	Chrysene	Dibenzo[a,h]anthracene	Fluoranthene	Fluorene	Indeno[1,2,3-cd]pyrene	Naphthalene	Phenanthrene	Pyrene		Beryllium	Chromium	Lead		Beryllium	Chromium	Lead

NOTES:

⁽¹⁾ U- Indicates compound/analyte was analyzed for but not detected, the associated value is the sampling reporting limit.

(2) J- Indicates an estimated Value

(3) NA- Not Analyzed

(4) NR - Remedial objective not required - all concentrations below TACO Tier i levels.

		Table 6 Remediation	Table 6 (Continued) Remediation Objectives and			
	Cont	Confirmation Soil Sampling Analytical Results Rogers Park Pond Parcel	ion Soil Sampling Analytic Rogers Park Pond Parcel	al Results		
		Sample I	ocation and Dep	th (feet below gro	Sample Location and Depth (feet below ground surface)/Concentration	entration
777	Remediation	RPP-CS05	RPP-CS06	RPP-CS07	RPP-CS07	RPP-CS07
Compound/Analyte	Objectives	-001	-001	-001	-002	-003
		06/21/01	06/27/01	06/21/01	06/25/01	06/28/01
		BTEX/St	BTEX/Styrene (mg/kg)			
Benzene	0.17	NA	NA	NA	NA	NA
loluene	29	NA	NA	NA	NA	NA
Ethyl Benzene	61	NA	NA	NA	NA	NA
(ylenes (total)	NR	NA	NA	NA	NA	NA
Styrene	NR	NA	NA	NA		NA
	Polynuclear /	Aromatic Hydroca	arbons Method 82	Polynuclear Aromatic Hydrocarbons Method 8270C SIM (mg/kg)		
Acenaphthene	NR	0.025 U	0.025 U	0.025 U	0.436	0.025 11
Acenaphthylene	NR R	0.025 U	0.025 U	0.025 U	0.452	0.025 U
Anthracene	NR	0.025 U	0.025 U	0.051	1.940	0.025 U
3enzo[a]anthracene	0.9	0.032	0.025 U	0.297	3.81	0.025 U
Benzo[b]fluoranthene	0.9	0.025 U	0.025 U	0.204	1.77	0.025 U
Benzo k Itluoranthene	6	0.025 U	0.025 U	0.187	1.750	0.025 U
Benzolg,h,i]perylene	NR	0.025 U	0.025 U	0.098	0.579	0.025 U
Senzola pyrene	0.09	0.025 U	0.025 U	0.109	1,760	0.025 U
Chrysene	88	0.033	0.025 U	0.327	4.280	0.025 U
Jibenzo[a,h]anthracene	0.09	0.025 U	0.025 U	0.048	0.313	0.025 U
Fluoranthene	W.	0.048	0.025 U	0.394	9.820	0.025 U
illuorene	N. N.	0.025 U	0.025 U	0.025 U	0.555	0.025 U
ndeno[1,2,3-cd]pyrene	6.0	0.025 U	0.025 U	0.115	0.652	0.025 U
Naphinaiche Di-	NK.	0.025 U	0.025 U	0.025 U	0.026	0.025 U
nenantinene	NK	0.025 U	0.025 U	0.198	5.120	0.025 U
yrene	NR	0.046	0.025 U	0.340	7.730	0.025 U
		Total Metals M	Total Metals Method 6020 (mg/kg			
Beryllium	NR	0.607 J	0.658	0.288 J	NA	NA.
Chromium	28	18.5	17.0	10.4	NA	NA
Lead	400	34.5	13.3	116	NA	NA
		SPLP Metals Method	hod 1312/6020 (mg/L			
Beryllium	NR	0.010 UJ	0.010 U	0.010 UJ	NA	NA
Chromium	-	0.021	0.025	0.070	NA	NA
Lead	0.1	0.021	0.033	0.044	NA	NA

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 J- Indicates an estimated Value
 NA- Not Analyzed
 NR- Remedial objective not required - all concentrations below TACO Tier i levels.

	Con	Table 6 Remediation firmation Soil Sa Rogers Pa	Table 6 (Continued) Remediation Objectives and Confirmation Soil Sampling Analytical Results Rogers Park Pond Parcel	ıl Results		
		Sample	Cocation and Dept	h (feet below grou	Sample Location and Depth (feet below ground surface)/Concentration	entration
(Remediation	RPP-CS08	RPP-CS08	RPP-CS08	RPP-CS09	RPP-CS10
Compound/Analyte	Objectives	-001	-002	-003	-001	-001
		06/21/01	06/25/01	06/28/01	06/27/01	06/29/01
		BTEX/St	BTEX/Styrene (mg/kg)			
Benzene	0.17	NA	NA	NA	NA	NA
loluene	29	NA	NA	NA	NA	NA
Ethyl Benzene	19	NA	NA	NA	NA	NA
Aylenes (total)	NR	NA	NA	NA	NA	NA
Styrene	NR	NA	NA	NA	NA	NA
	lear	Aromatic Hydroca	Aromatic Hydrocarbons Method 8270C SIM (mg/kg)	70C SIM (mg/kg)		
Acenaphthene	NR.	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U
Acenaphthylene	N. N.	0.064	0.145	0.025 U	0.025 U	0.025 U
Anthracene	NR	0.059	0.055	0.025 U	0.025 U	0.025 U
Benzo a anthracene	0.9	0.258	0.167	0.025 U	0.025 U	0.025 U
Benzo b fluoranthene	0.9	0.188	0.242	0.025 U	0.025 U	0.025 U
Benzo k Jillioranthene	6	0.156	0.133	0.025 U	0.025 U	0.025 U
Benzolg,n,1 perylene	NK	0.0078	0.070	0.025 U	0.025 U	0.025 U
Benzolajpyrene	0.09	0.164	0.168	0.025 U	0.025 U	0.025 U
Chrysene	88	0.295	0.204	0.025 U	0.025 U	0.025 U
Ulbenzola, njanthracene	0.09	0.046	0.033	0.025 U	0.025 U	0.025 U
Fluoranthene	ž,	0.276	0.232	0.025 U	0.025 U	0.025 U
riuorene Transcripto 2 di	NK	0.025 U	0.036	0.025 U	0.025 U	0.025 U
Markhalana	0.9	0.085	0.073	0.025 U	0.025 U	0.025 U
Dhananthrana	NK	0.025	0.025 U	0.025 U	0.025 U	0.025 U
Dyrana	NR	0.104	0.0/3	0.025 U	0.025 U	0.025 U
ryiene	NK	0.241	0.240	0.025 U	0.025 U	0.025 U
		Total Metals M	Total Metals Method 6020 (mg/kg)			
Beryllium	NR	0.361 J	NA	NA	069.0	0.694
Chromium	28	9.46	NA	NA	18.8	17.2
Lead	400	137	NA	NA	14.6	12.5
		SPLP Metals Met	SPLP Metals Method 1312/6020 (mg/L			
Beryllium	NR	U 010.0	NA	NA	0.010 U	0.010 U
Chromium	-	0.010 U	NA	NA	0.147	0.019
Lead	0.1	0.058	NA	NA	0.012	0.007
NOTES:						

(1) U-Indicates counpound/analyte was analyzed for but not detected, the associated value is the sampling reporting limit.
(2) I- Indicates an estimated Value
(3) NA-Not Analyzed
(4) NR - Remedial objective not required - all concentrations below TACO Ter 1 levels.

		RPM-CSH-03L	07/27/01		0.002 U	0.005 U	0.005 U	0.005 U	0.005 U		0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U		NA	NA	19.3		NA	NA	0.005 11	2 2222
	e)/Concentration	RPM-CSH-03U	07/27/01		0.002 U	0.005 U	0.005 U	0.005 U	0.005 U		0.025 U'	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U		NA	NA	14.3		NAN	ΨN	0.082	
	Sample Location and Depth (feet below ground surface)/Concentration	RPM-CSH-01L RPM-CSH-02U RPM-CSH-02L RPM-CSH-03U RPM-CSH-03L	07/27/01		0.002 U	0.005 U	0.005 U	0.005 U	0.005 U	(mg/kg)	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U		NA	NA	14.8		NA NA	NA N	0.005 U	
ed) es and nalytical Results 'arcel	nd Depth (feet bel	RPM-CSH-02U	07/27/01	/kg)	900.0	0.005 U	0.005 U	0.005 U	0.005 U	thod 8270C SIM	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0 (mg/kg)	NA	NA	12.3	5020 (mg/L)	NA	NA	0.022	
Table 6 (Continued) Remediation Objectives and Confirmation Soil Sampling Analytical Results Rogers Park Pond Parcei	ample Location as	RPM-CSH-01L	07/27/01	BTEX/Styrene (mg/kg)	0.002 U	0.005 U	0.005 U	0.005 U	0.005 U	Iydrocarbons Me	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	Total Metals Method 6020 (mg/kg)	NA	NA	19.3	SPLP Metals Method 1312/6020 (mg/L)	NA	NA	0.022	
T Reme Confirmation Rog		RPM-CSH-01U	07/27/01	i i	0.002 U	0.005 U	0.005 U	0.005 0	0.000	Polynuclear Aromatic Hydrocarbons Method 8270C SIM (mg/kg)	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	Total M	NA	NA	15.9	SPLP Met	NA	NA	0.01	
		Remediation R Objectives	7		0.17	29	61	NK	INK T	- 11	NR	NR	NR	6.0	0.0	6	ZE ZE	60:0	88	60.0	NR.	N. N.	6.0	N.	NK	NR		NR	28	400		NR	-	0.1	
		Compound/Analyte			Benzene	l oluene	Euryl Benzene Vydanes (fotel)	Shrene			Acenaphthene	Acenaphthylene	Anthracene	Benzola lanthracene	Benzo b fluoranthene	Benzo[k]fluoranthene	Benzolg,h,i]perylene	Benzo[a]pyrene	Chrysene	Dibenzola, hjanthracene	Fluoranthene	Fluorene	Indenol 1,2,3-cd pyrene	Naphthalene	rnenanthrene	Pyrene		Beryllium	Chromium	Lead		Beryllium	Chromium	Lead	MORDO

⁽¹⁾ U-Indicates counpound/analyte was analyzed for but not detected, the associated value is the sampling reporting limit.
(2) I-Indicates an estimated Value
(3) NA-Not Analyzed
(4) NR - Remedial objective not required - all concentrations below TACO Tier i levels.

		Conf	Table 6 Remediation irmation Soil Sa Rogers Pa	Table 6 (Continued) Remediation Objectives and Confirmation Soil Sampling Analytical Results Rogers Park Pond Parcel	ıl Results			
			Sample I	ocetion and Dent	h (faat balan ana			
	Remediation	RPM-CSH-04U	RPM-CSH-04I	RPM-CSH-0511	RPM-CSH-041 RPM-CSH-0511 RPM-CSH-0511 RPM-CSH-0511 RPM-CSH-0611 RPM-CSH-0511	RPM-CSH OGT		DOM COIL OCT
Compound/Analyte	Objectives			000-1100-111 TW	TCO-II-CO-III-	M-CSH-000		KPM-CSH-06L
		07/27/01	07/27/01	08/01/01	08/01/01	08/12/01	08/30/01	08/15/01
			BTEX/St	BTEX/Styrene (mg/kg)				
Benzene	0.17	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U
Toluene	29	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
Ethyl Benzene	19	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
Xylenes (total)	NR:	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
Styrene	NR	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
		ᇤ	vromatic Hydroca	Aromatic Hydrocarbons Method 8270C SIM (mg/kg)	70C SIM (mg/kg)			
Acenaphthene	NR	0.025 U	0.025 U	0.025 U	0.025 U	0.089	0.025 U	0.025 U
Acenaphthylene	NR	0.025 U	0.025 U	0.025 U	0.025 U	1.38	0.025 U	0.025 U
Anthracene	NR NR	0.025 U	0.025 U	0.025 U	0.025 U	0.541	0.025 U	0.025 U
Benzo a anthracene	0.9	0.025 U	0.025 U	0.025 U	0.025 U	1.17	0.025 U	0.025 U
Benzo[b]fluoranthene	6.0	0.025 U	0.025 U	0.025 U	0.025 U	0.273	0.025 U	0.025 U
Benzo k fluoranthene	6	0.025 U	0.025 U	0.025 U	0.025 U	0.370	0.025 U	0.025 U
Benzolg,h,i perylene	NR	0.025 U	0.025 U	0.025 U	0.025 U	0.103	0.025 U	0.025 U
Benzo[a]pyrene	0.09	0.025 U	0.025 U	0.025 U	0.025 U	0.424	0.025 U	0.025 U
Chrysene	88	0.025 U	0.025 U	0.025 U	0.025 U	1.06	0.025 U	0.025 U
Dibenzo[a,h]anthracene	0.09	0.025 U	0.025 U	0.025 U	0.025 U	0.055	0.025 U	0.025 U
Fluoranthene	NR	0.025 U	0.025 U	0.025 U	0.025 U	1.79	0.025 U	0.025 U
Fluorene	NR	0.025 U	0.025 U	0.025 U	0.025 U	0.238	0.025 U	0.025 U
Indenol 1,2,3-cd pyrene	6:0	0.025 U	0.025 U	0.025 U	0.025 U	0.104	0.025 U	0.025 U
Naphraiene	NK.	0.025 U	0.025 U	0.025 U	0.025 U	1.34	0.025 U	0.025 U
Fhenanthrene	NK	0.025 U	0.032	0.025 U	0.025 U	1.98	0.025 U	0.025 U
Pyrene	NR	0.025 U	0.025 U	0.025 U	0.025 U	2.81	0.025 U	0.025 U
			Total Metais Method	8				
Beryllium	NR	NA	NA	NA	NA	NA	NA	NA
Chromium	28	NA	NA	NA	NA	NA	NA	NA
Lead	400	12.8	16.3	15.1	14.1	14.0	NA	18.7
		01	SPLP Metais Met	SPLP Metais Method 1312/6020 (mg/L)	ıg/L)			
Beryllium	NR		NA	NA	NA	NA	NA	NA
Chromium	ı	NA	NA	NA	NA	NA	NA	NA
Lead	0.1	0.013	0.013	0.012	0.005 U	900.0	NA	0.008

(1) U- Indicates counpound/analyte was analyzed for but not detected, the associated value is the sampling reporting limit. (2) J- Indicates an estimated Value

(3) NA- Not Analyzed
(4) NR - Remedial objective not required - all concentrations below TACO Tier i levels.

		Ren	Table 6 (Continued) Remediation Objectives and	ued) ves and			
		Confirmation Re	Confirmation Soil Sampling Analytical Results Rogers Park Pond Parcel	Analytical Results Parcel	ø		
			Sample Location	and Depth (feet be	Sample Location and Depth (feet below ground surface)/Concentration	ce)/Concentration	
7,7	Remediation	RPM-CSH-07U	RPM-CSH-07U	RPM-CSH-07L	RPM-CSH-07U RPM-CSH-07L RPM-CSH-08U RPM-CSH-08L	RPM-CSH-08L	RPM-CSH-09
Compound/Analyte	Objectives	08/15/01	-02	08/15/01	08/01/01	08/01/01	08/08/01
			BTEX/Styrene (mg/kg)	g/kg)		101000	10/00/00
Benzene	0.17	1.94	0.002 U	0.002 U	0.002 U	0.002 11	0000
Toluene	29	0.504	0.005 U	0.005 U	0.005 U	0.005 U	0.005
Ethyl Benzene	19	0.411	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
Xylenes (total)	NR	2.45	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
Styrene	NR	0.590	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		Polynuclear Aromatic Hydrocarbons Method 8270C SIM	Hydrocarbons M	ethod 8270C SIM	(mg/kg)		
Acenaphthene	NR	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U
Acenaphthylene	NR	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U
Anthracene	NR	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U
Benzo[a]anthracene	0.0	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U
Benzo b fluoranthene	0.9	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U
Benzo[k]fluoranthene	6	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U
Benzo g, h, i]perylene	NR	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U
Benzo[a]pyrene	0.09	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U
Chrysene	88	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U
Dibenzo[a,h]anthracene	0.09	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U
Fluoranthene	NR.	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U
Fluorene	NR.	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U
Indenol 1,2,3-cd pyrene	6.0	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U
Naphinalene	NK ;	0.073	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U
Phenanthrene	NK	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U
Pyrene	NR	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U
		Total l	Total Metals Method 6020 (mg/kg)	20 (mg/kg)			
Beryllium	NR	NA	NA	NA	NA	NA	NA
Chromium	28	NA	NA	NA	NA	NA	NA
Lead	400	15.6	NA	16.6	6.91	19.7	13.9
		SPLP Me	SPLP Metals Method 1312/6020 (mg/L	?/6020 (mg/L)			
Beryllium	NR	NA	NA	NA	NA	NA	NA
Chromium	-	NA	NA	NA	NA	NA	NA
Lead	0.1	0.005 U	NA	0.005 U	0.009	900'0	0.011
NOTES					1		

(1) U- Indicates counpound/analyte was analyzed for but not detected, the associated value is the sampling reporting limit.

(2) J. Indicates an estimated Value
(3) NA- Not Analyzed
(4) NR - Remedial objective not required - all concentrations below TACO Tier 1 levels.

		Rer Confirmatio	Table 6 (Continued) Remediation Objectives and Confirmation Soil Sampling Analytical Results Rogers Park Pond Parcei	ted) ves and knalytical Result: Parcel			
			Sample Location	and Depth (feet be	low ground surfa	ce)/Concentration	
Compound/Analyte	Remediation Objectives	RPM-CST-01U	RPM-CST-01U RPM-CST-01L	RPM-CST-02U	RPM-CST-02L	RPM-CST-01L RPM-CST-02U RPM-CST-02L RPM-CST-03U	RPM-CST-03L
	,	08/03/01	08/03/01	08/03/01	08/03/01	10/51/80	10/51/80
			BTEX/Styrene (mg/kg)	g/kg)			
Benzene	0.17	Ιİ	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U
Toluene	29	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
Ethyl Benzene	- 19	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
Xylenes (total)	X ;	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
Styrene	NR	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
	- 11	nuclear Aromatic	Polynuclear Aromatic Hydrocarbons Method 8270C SIM (mg/kg)	ethod 8270C SIM	(mg/kg)		
Acenaphthene	NR.	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U
Acenaphthylene	NR	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U
Anthracene	NR	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U
Benzo[a]anthracene	0.0	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U
Benzo[b]fluoranthene	0.0	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U
Benzo[k] fluoranthene	6	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U
Benzo g,h,i]perylene	NR	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U
Benzo[a]pyrene	0.09	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U
Chrysene	88	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U
Dibenzo[a,h]anthracene	0.09	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U
Fluoranthene	NR	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U
Fluorene	NR	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U
Indenol 1,2,3-cd pyrene	0.0	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U
Naphthalene	NK.	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U
Phenanthrene	NK	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U
Pyrene	NR	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U
		Total	Total Metals Method 6020 (mg/kg)	20 (mg/kg)			
Beryllium	NR	NA	NA	NA	NA	NA	NA
Chromium	28	NA	NA	NA	NA	NA	NA
Lead	400	15.5	14.2	15.4	14.5	14.2	16.1
		SPLP M	SPLP Metals Method 1312/6020 (mg/L)	/6020 (mg/L)			
Beryllium	NR	NA	NA	NA	NA	NA	NA
Chromium	1	NA	NA	NA	NA	NA	NA
Lead	0.1	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.013
MOTES.							

⁽¹⁾ U- Indicates counpound/analyte was analyzed for but not detected, the associated value is the sampling reporting limit.

⁽²⁾ J- Indicates an estimated Value
(3) NA- Not Analyzed
(4) NR - Remedial objective not required - all concentrations below TACO Tier 1 levels.

	Sample Location and Depth (feet below ground surface)/Concentration RPM-CST-04L RPM-CST-05																															
Results	(feet below grouns T-05	10	2 U	5 U	5 11	S U	OC SIM (mg/kg)	5 U	5 U	5 U	5 U	5 U	.5 U	0.025 U ·	S U	s U	0.025 U	5 U	5 U	5 U	5 U	.5 U	0.025 U	(A	A	.2	(L)	A	A		
ued) ives and Analytical Parcel	and Depth (feet RPM-CST-05	le/kg)	0.002 U	0.005 U	0.005 U	0.005	1ethod 8270	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.05	0.025 U	0.025 U	0.02	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.05	320 (mg/kg	NA	NA	16.2	2/6020 (mg	NA	NA	0.011	
Table 6 (Continued) Remediation Objectives and Confirmation Soil Sampling Analytical Results Rogers Park Pond Parcel	RPM-CST-04L	BTEX/Styrene (mg/kg)	0.002 U	0.005 U	0.005 U	0.005 U	Hydrocarbons N	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	Total Metals Method 6020 (mg/kg)	NA	NA	13.3	SPLP Metals Method 1312/6020 (mg/L	NA	NA	0.005 U	
Rem Confirmation Ro	Sample Location Sample Location RPM-CST-04U RPM-CST-04L O8/08/01	Ji 1	0.005 U	0.003 U	0.005 U	Polynuclear Aromatic Hydrocarbons Method 8270C SIM (mg/kg)	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	Total N	NA	NA	16.3	SPLP Me	NA	NA	0.005 U		
	Remediation Objectives		0.17	29	NR.	NR	Polyn	NR	NR	NR.	6.0	6.0	6	NR.	60:0	88	60:0	NR	NR	6.0	×××	NR.	NR		NR	28	400		NR	1	0.1	
	Compound/Analyte		Benzene	Toluene Frhyl Benzene	Xylenes (total)	Styrene		Acenaphthene	Acenaphthylene	Anthracene	Benzo[a]anthracene	Benzo[b]fluoranthene	Benzo[k]fluoranthene	Benzo[g,h,i]perylene	Benzo[a]pyrene	Chrysene	Dibenzo[a,h]anthracene	Fluoranthene	Fluorene	Indeno[1,2,3-cd]pyrene	Naphthalene	Phenanthrene	Pyrene		Beryllium	Chromium	Lead		Beryllium	Chromium	Lead	MOTES.

U- Indicates counpound/analyte was analyzed for but not detected, the associated value is the sampling reporting limit.
 J- Indicates an estimated Value
 NA- Not Analyzed
 NR - Remedial objective not required - all concentrations below TACO Tier I levels.

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Table 6 (Continued) Remediation Objectives and Confirmation Soil Sampling Analytical Results Ropers Park Pond Parcel	***** * **** * ******

			Sample Location	Sample Location and Depth (feet below ground surface)/Concentration	face)/Concentration
Compound/Analyte	Remediation Objectives	RPM-N-Pipe	RPM-S-Pipe	RPM-B-Pipe	
		09/04/01	09/04/01	09/04/01	
		1	BTEX/Styrene (mg/kg)	y/kg)	
Benzene	0.17	0.002 U	0.002 U	0.002 U	
Toluene	29	0.005 U	0.005 U	0.005 U	
Ethyl Benzene	61	0.005 U	0.005 U	0.005 U	
Xylenes (total)	NR	0.005 U	0.005 U	0.005 U	
Styrene	NR	0.005 U	0.005 U	0.005 U	
	Poly	nuclear Aromatic	Hydrocarbons M	Polynuclear Aromatic Hydrocarbons Method 8270C SIM (mg/kg)	
Acenaphthene	NR	0.025 U	0.025 U	0.025 U	
Acenaphthylene	NR	0.025 U	0.025 U	0.025 U	
Anthracene	NR	0.025 U	0.025 U	0.025 U	
Benzo[a]anthracene	6.0	0.025 U	0.025 U	0.025 U	
Benzo[b]fluoranthene	6.0	0.025 U	0.025 U	0.025 U	
Benzo[k]fluoranthene	6	0.025 U	0.025 U	0.025 U	
Benzo[g,h,i]perylene	NR	0.025 U	0.025 U	0.025 U	
Benzo[a]pyrene	0.09	0.025 U	0.025 U	0.025 U	
Chrysene	88	0.025 U	0.025 U	0.025 U	
Dibenzo[a,h]anthracene	0.09	0.025 U	0.025 U	0.025 U	
Fluoranthene	NR	0.025 U	0.025 U	0.025 U	
Fluorene	NR	0.025 U	0.025 U	0.025 U	
Indeno[1,2,3-cd]pyrene	6.0	0.025 U	U 820.0	0.025 U	
Naphthalene	NR	0.025 U	0.025 U	0.025 U	
Phenanthrene	NR	0.025 U	0.025 U	0.025 U	
Pyrene	NR	0.025 U	0.025 U	0.025 U	
		Total l	Total Metals Method 6020 (mg/kg)	20 (mg/kg)	
Beryllium	NR	NA	NA	NA	
Chromium	28	NA	NA	NA	
Lead	400	12.9	6.87	26.4	
		SPLP Me	SPLP Metals Method 1312/6020 (mg/L	/6020 (mg/L)	
Beryllium	NR	NA	NA	NA	
Chromium	-	NA	NA	NA	
Lead	0.1	0.005 U	0.005 U	0.005 U	

Lead NOTES:

U-Indicates counpound/analyte was analyzed for but not detected, the associated value is the sampling reporting limit.
 J-Indicates an estimated Value
 NA-Not Analyzed
 NR-Remedial objective not required - all concentrations below TACO Tier I levels.

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FIGURES

MAP

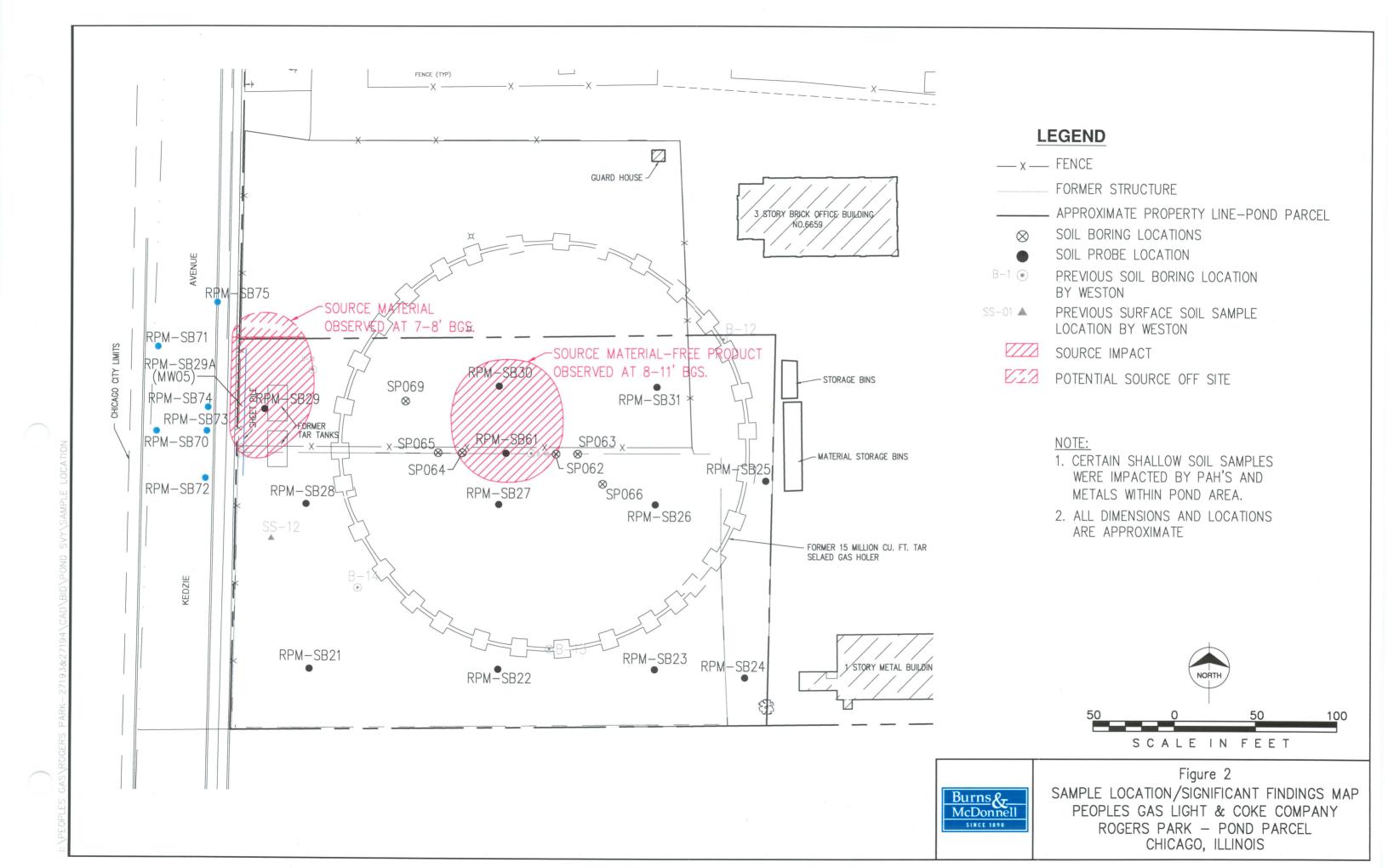
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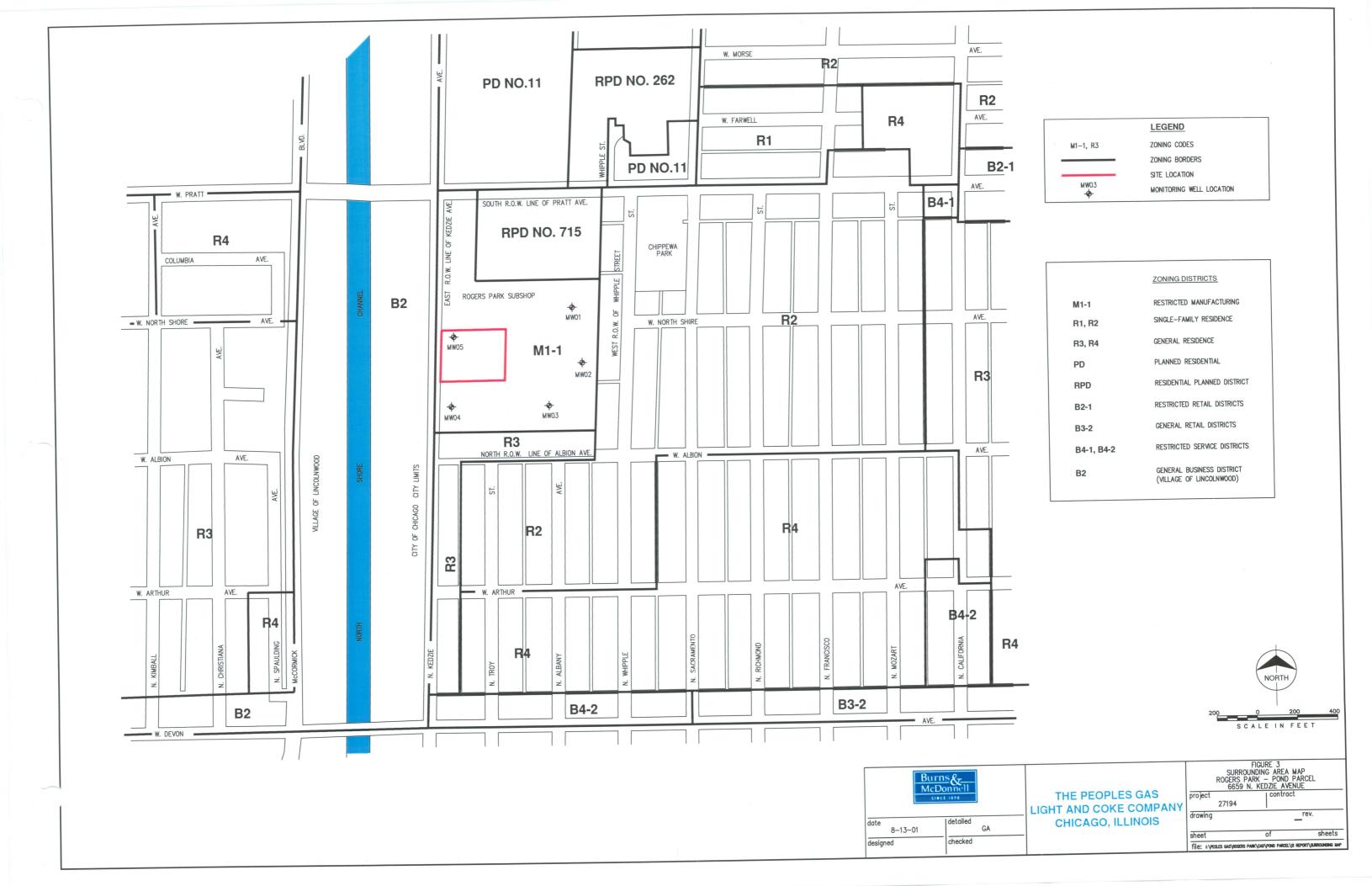
REPORT /SITE

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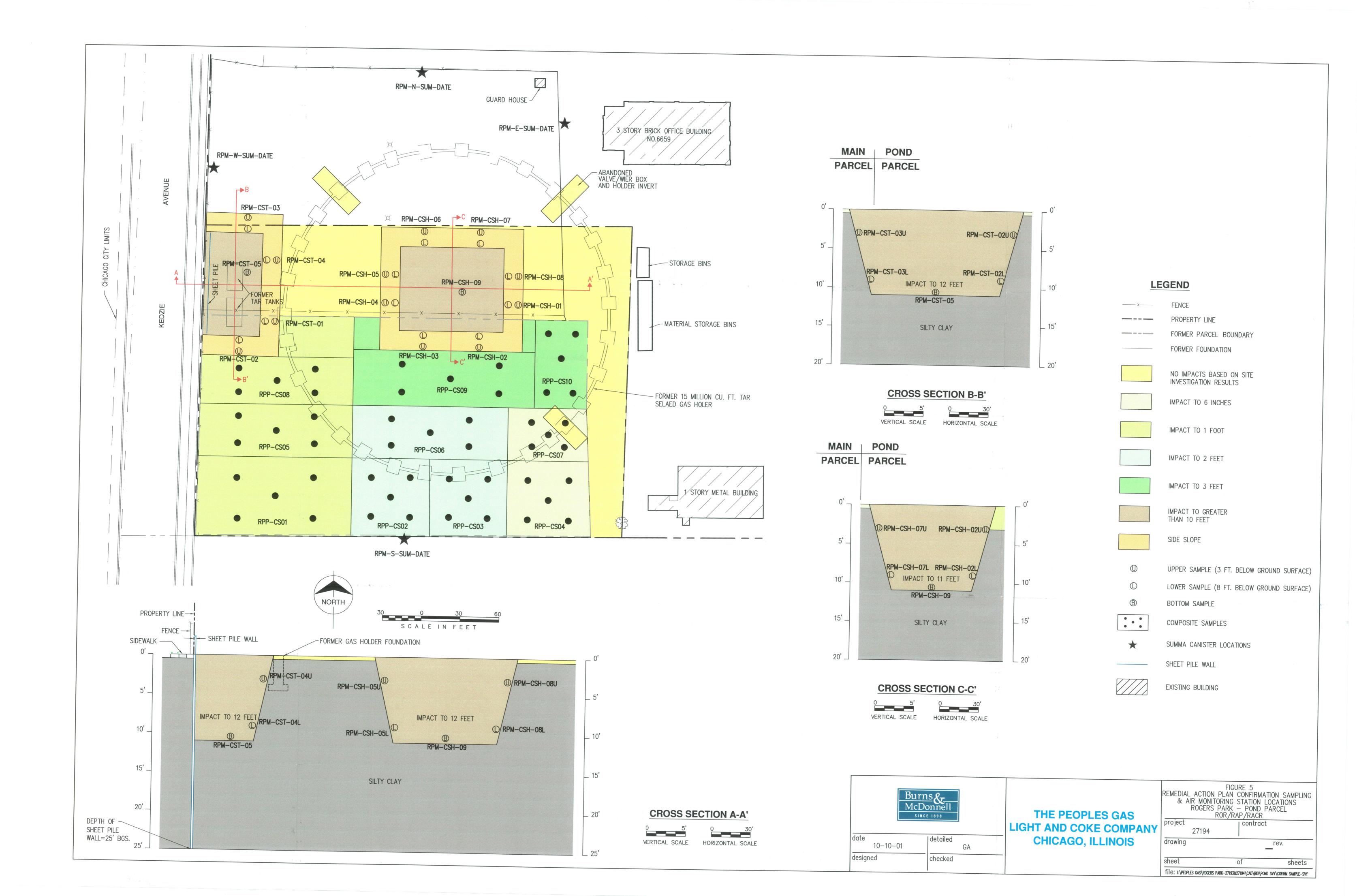
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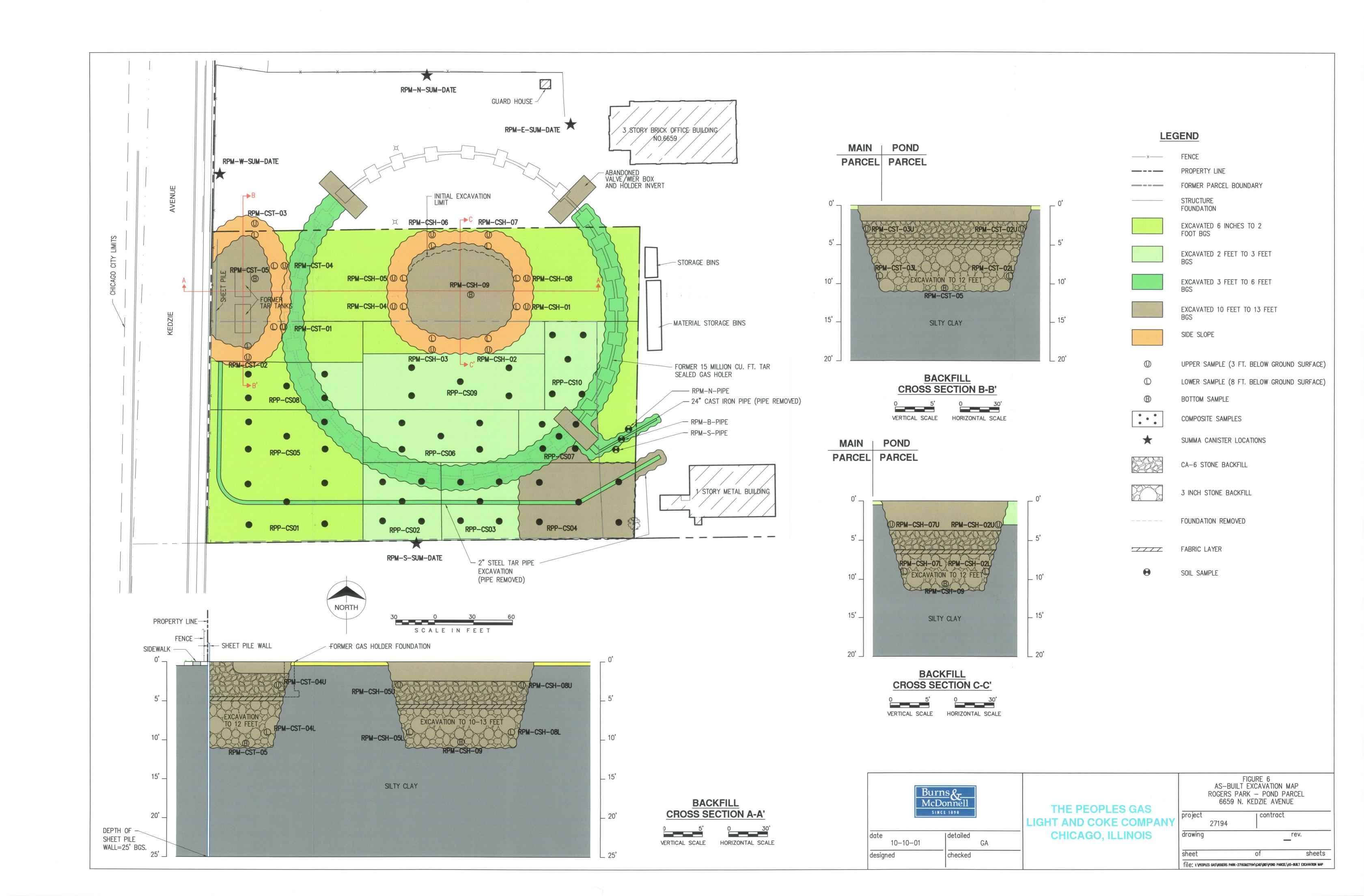
/PEOPLES











APPENDIX A PHOTO LOG



Peoples Gas Rogers Park Site 6-25-01

View of the former gas holder concrete foundation when it was first uncovered.



Peoples Gas Rogers Park Site 6-25-01

View from the south of the employee parking lot with the excavated pond parcel in the foreground.



Peoples Gas Rogers Park Site 6-25-01

View from the east. Exposing the gas holder concrete foundation.



Peoples Gas Rogers Park Site 6-25-01

A portion of the southeast valve/wier box when first uncovered.



Peoples Gas Rogers Park Site 6-26-01

View from the east of the exposed gas holder concrete foundation.



Peoples Gas Rogers Park Site 6-26-01

View from the northeast. Trucks being loaded with special waste for transport to CID.



Peoples Gas Rogers Park Site 7-20-01

View of the west fence bordering Kedzie Avenue. Preparing area for driving sheet piling by removing asphalt and marking all gas lines.



Peoples Gas Rogers Park Site 7-24-01

View of the western fence with Kedzie Avenue behind. Driving in the sheet piling to facilitate deeper excavation in the area of the former tar tanks.



Peoples Gas Rogers Park Site 7-25-01

View of the west fence after the sheet piling has been completely driven down to 20 feet below ground surface. The fence is being reinstalled.



Peoples Gas Rogers Park Site 7-26-01

View of the west fence with Kedzie Avenue behind. Drilling in order to install the inclinometer, required by the City of Chicago as part of structural monitoring.



Peoples Gas Rogers Park Site 7-27-01

View of the Pond Parcel from the northeast. Beginning the excavation of the center of the former gas holder area.



Peoples Gas Rogers Park Site 7-27-01

A portion of the Pond Parcel viewed from the east. Pre-excavation with the frac tank in place. Sheet piling not visible, yet in place near the west fence with Kedzie Avenue just beyond. Black fabric in place.



Peoples Gas Rogers Park Site 7-27-01

Close-up view of the Summa Canister at the south station. Notice the blue 10-hour flow controller and the sampling cane (usually only used on rainy days) attached to the filter.



Peoples Gas Rogers Park Site 8-02-01

View from the south. Excavation of former tar tank area with sheet piling exposed to the west and a portion of the concrete saddle exposed to the east. No tanks were present in the saddles.



Peoples Gas Rogers Park Site 8-04-01

View of the former tar tank area excavation on the west side of the property. Backfilling against the sheet piling.



Peoples Gas Rogers Park Site 8-04-01

View from the east. Waste from the gas holder excavation covered with plastic to keep in all odors and to protect until the next morning for offsite disposal.



Peoples Gas Rogers Park Site 8-04-01

View of the saddle on the west side of the property. Concrete saddles that were used to hold the tar tanks were found during excavation.



Peoples Gas Rogers Park Site 8-07-01

View of the Pond Parcel from the northeast. Gas holder excavation nearing completion with fill waiting to be pushed into the hole.



Peoples Gas Rogers Park Site 8-09-01

Truck fully lined and ready to be loaded with waste.



Peoples Gas Rogers Park Site 8-09-01

View from the south. Parking lot watered to control dust from the truck traffic.



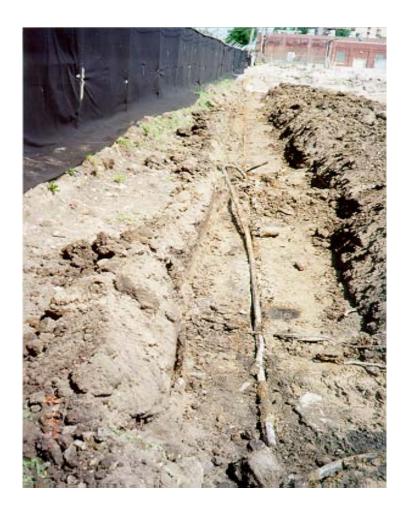
Peoples Gas Rogers Park Site 8-9-01

Taking readings on the inclinometer located outside the property between the western fence and the sidewalk bordering Kedzie Avenue.



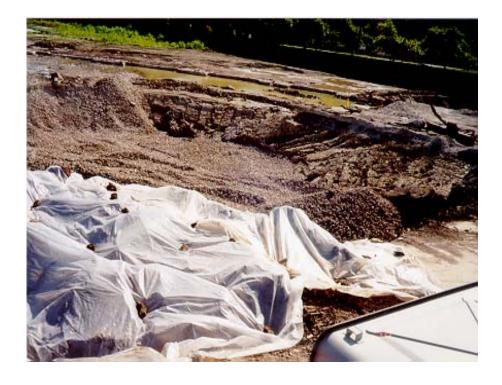
Peoples Gas Rogers Park Site 8-9-01

View from the south of the gas holder excavation.



Peoples Gas Rogers Park Site 8-13-01

View from the south along the west fence of the 2 inch pipe containing tar excavated and removed. This pipe continued to the south boundary of the Pond Parcel where it turned and headed straight east. This pipe and surrounding impacted soils were completely excavated and removed from the Pond Parcel.



Peoples Gas Rogers Park Site 8-13-01

View from the northeast. Gas holder excavation being backfilled.



Peoples Gas Rogers Park Site 8-14-01

Taking readings with both the dust monitor and the PID along the northern edge of the gas holder excavation.



Peoples Gas Rogers Park Site 8-14-01

View from the south of the gas holder excavation. The south summa canister station in front of a concrete pad found on the outside perimeter of the gas holder wall.



Peoples Gas Rogers Park Site 8-15-01

View from the west. Backfilling the gas holder excavation. Black fabric in place between 3" crushed concrete and smaller crushed concrete.



Peoples Gas Rogers Park Site 8-15-01

Beginning the excavation of the northwest valve and weir box.



Peoples Gas Rogers Park Site 8-21-01

A roll-off box used for disposal of the valve/wier box waste.



Peoples Gas Rogers Park Site 8-15-01

View from the south. The liquid contents of the northwest valve /weir box being extracted by SET Environmental into tanker truck.



Peoples Gas Rogers Park Site 8-27-01

Contents of the northwest valve and wier box being broken up for removal. This configuration was typical for all three valve/wier structures.



Peoples Gas Rogers Park Site 8-29-01

Preparing the contents of the southeast valve box for direct loading into roll-off boxes.



Peoples Gas Rogers Park Site 8-29-01

Breaking up the west portion of the gas holder concrete foundation.



Peoples Gas Rogers Park Site 8-30-01

SET Environmental high pressure washing the interior of the valve/wier box after sludge liquid and pipe removal.



Peoples Gas Rogers Park Site 8-30-01

View from the south. Backfilling the southeast valve/wier box.



Peoples Gas Rogers Park Site 8-31-01

View from the northeast. The cast iron scrap pieces from the valve/wier boxes cleaned and waiting on plastic to be taken off the site by scrap recycler.



Peoples Gas Rogers Park Site 9-5-01

The northwest valve/wier box decontaminated and being backfilled.



Peoples Gas Rogers Park Site 9-18-01

View from the north. Excavating along side the gas holder concrete foundation to ensure that all visible coal tar patches are removed.



Peoples Gas Rogers Park Site 9-26-01

View from the west of the excavation in the southeast corner of the Pond Parcel where seams of coal tar were excavated.



Peoples Gas Rogers Park Site 10-4-01

View from the northeast of the site after backfill is nearly complete.



Peoples Gas Rogers Park Site 10-4-01

View from the northeast of the completed site with South Parcel behind.

APPENDIX B
WASTE CHARACTERIZATION ANALYTICAL RESULTS AND WASTE
PROFILE DOCUMENTATION

Test/merica

Ms. Margaret Kelley BURNS & MCDONNELL 2601 West 22nd Street Oakbrook, IL 60523 04/27/2001

Job Number: 01.03541

IEPA Cert. No.: 100221
WDNR Cert. No.: 999447130

Enclosed is the Analytical and Quality Control reports for the following samples submitted to Bartlett Division of TestAmerica for analysis.

Project Description: #27193-3.06 Rogers Park South/Chicago

Sample
Number Sample Description Taken Received

Sample analysis in support of the project referenced above has been completed and results are presented on the following pages. These results apply only to the samples analyzed. Reproduction of this report only in whole is permitted. Please refer to the enclosed "Key to Abbreviations" for definition of terms. Procedures used follow TestAmerica Standard Operating Procedures which reference the methods listed on your report. Should you have questions regarding procedures or results, please do not hesitate to call. TestAmerica has been pleased to provide these analytical services for you.

This Quality Control report is generated on a batch basis. All information contained in this report is for the analytical batch(es) in which your sample(s) were analyzed.

Approved by:

Project Manager

Page 1 of 12

ANALYTICAL REPORT

Ms. Margaret Kelley BURNS & MCDONNELL 2601 West 22nd Street Oakbrook, IL 60523 04/27/2001

Sample No. : 625032

Job No.: 01.03541

Sample Description:

RPS-WC1

#27193-3.06; Rogers Park South/Chicago

Date Received: 04/23/2001 Time Received: 16:45 WDNR Cert. No. 999447130

•		\$	Date Time	Reporting		Batch No.	Analytical
Parameter	Result Flag	Units	Analyzed Analyzed	Limit	Analyst	Prep/Run	Method
	ii	- J	04/27/2001	0.10	dat	34	ASTM D3987-85
ASTM-pH	8.31	units	04/27/2001	0.10	reh	70	ASTM D3987-85
ASTM Preparation	Complete		04/24/2001	20	kmb	23	SM 5220
ASTM-COD	<20	mg/L	04/26/2001	0005	dat	70	DI1 3223
ASTM-Cyanide	<0.,005	mg/L	04/27/2001		cdp	757	SW 1010
Flashpoint	>200	Degree F	04/27/2001	72	kmb	33	EPA 350.1
ASTM-Ammonia	<0.50	mg/L	04/25/2001	0.50		70 4	ASTM 4981-89
ASTM-Oxidizer Screen	no reaction		04/27/2001	NA	pbk	70 4 626	ASIM 4981-09 SW 9095A
Paint Filter Test	pass		04/27/2001	NA	pbk		SW 9045B
pH. Non-Aqueous	8 08	units	04/27/2001	0.10	cdp	489	-
Solids, Total	78.2	ક	04/26/2001	0.1	cdp	3934	SM 2540
TCLP Metals Extraction	Leached	•	04/24/2001		reh	1394	SW- 1311
TCLP-Arsenic, ICP	<0.20	mg/L	04/26/2001	020	aks	3694 5711	SW 6010B
TCLP-Barium, ICP	0.402	mg/L	04/26/2001	0 . 020	aks	3694 5713	SW 6010B
TCLP-Cadmium, ICP	<0.010	mg/L	04/26/2001	0.010	aks	3694 6598	SW 6010B
TCLP-Chromium, ICP	<0.040	mg/L	04/26/2001	0.040	aks	3694 5702 ⁵	SW 6010B
TCLP-Lead, ICP	<0.200	mg/L	04/26/2001	0.200	aks	3694 5906	SW 6010B
TCLP-Mercury, CVAA	<00002	mg/L	04/26/2001	0.0002 .	efw2	1750 1548	SW 7470A
TCLP-Selenium, ICP	<0.20	mg/L	04/26/2001	0.20	aks	3694 5517	SW 6010B
TCLP-Silver, ICP	<0050	mg/L	04/26/2001	0050	aks	3694 5921	SW 6010B
TCLP Organic Prep	Leached		04/24/2001		reh	737	SW 1311
Prep PCBs 8082 NonAqueous	extracted		04/24/2001		jjh	700	SW 3550B
FIED LODS 2005 Holfsdacogs	01101411111						
PCBs 8082 NonAqueous						-	.7
<u>.</u>	<320	ug/kg dw	04/24/2001	320	skb	700 204	SW 8082
PCB-1016	<320	ug/kg dw	04/24/2001	320	skb	700 204	SW 8082
PCB-1221		ug/kg dw	04/24/2001	320	skb	700 204	SW 8082
PCB-1232	<320		04/24/2001	320	skb	700 204	SW 8082
PCB-1242	<320	ug/kg dw	04/24/2001	320			

Test/menica

ANALYTICAL REPORT

Ms. Margaret Kelley BURNS & MCDONNELL 2601 West 22nd Street Oakbrook, IL 60523 04/27/2001

Sample No. : 625032

Job No.: 01.03541

Sample Description:

RPS-WC1

#27193-3.06; Rogers Park South/Chicago

Date Taken: 04/23/2001 Time Taken: 14:00 IEPA Cert. No. 100221 Date Received: 04/23/2001 Time Received: 16:45 WDNR Cert. No. 999447130

Parameter	Result	Flag	UņiÉs	Date Analyzed	Time AnaFyzed	Reporting Limit	Analyst	Batc Prep	h No. /Run	Analytical Method
PCB-1248 PCB-1254 PCB-1260 Surr: Tetrachloroxylene (TCX) Surr: Decachlorobiphenyl (DCB) Prep, BNA Extract (TCLP)	<320 <320 <320 108.0 123.0 extracted	•	ug/kg dw ug/kg dw ug/kg dw %	04/24/2001 04/24/2001 04/24/2001 04/24/2001 04/24/2001 04/26/2001		320 320 320 51-135 55-123	skb skb skb skb msr	700 700 700 700 700 950	204 204 204 204 204	SW 8082 SW 8082 SW 8082 SW 8082 SW 8082 SW 3510C
TCLP BASE NEUTRAL COMPOUNDS TCLP-Hexachlorobenzene TCLP-Pyridine Surr: Nitrobenzene-d5 Surr: 2-Fluorobiphenyl Surr: Terphenyl-d14 ASTM-Oil & Grease Reactive Sulfide	<0.10 <0.10 63.0 62.0 68.0 11 <10	R1R3R4	mg/L mg/L % % mg/L mg/kg	04/27/2001 04/27/2001 04/27/2001 04/27/2001 04/27/2001 04/26/2001		0.10 0.10 27-118 29-109 31-123 5.0	dap dap dap dap dap dap mas	737 737 737 737 737	1898 1898 1898 1898 1898 20 962	SW 8270C SW 8270C SW 8270C SW 8270C SW 8270C EPA 413.1 SW 7.3/9034

RIR3R4: USEPA RL for this analyte is 500mg/Kg sults below the USEPA RL(s) are for informational purposes only.

USEPA Methods Information and Communication Exchange.



QUALITY CONTROL REPORT

CONTINUING CALIBRATION VERIFICATION

BURNS & MCDONNELL 2601 West 22nd Street Oakbrook, IL 60523

Ms. Margaret Kelley

04/27/2001

Job Number: 01.03541

		Run	CCV ,		Percent
Analyte		Batch Number	True A	Found	Recovery
;	* .				• • • •
ASTM-Cyanide	2	70	0.115	0.122	106.1
ASTM-Cyanide		70	0.115	0.122	106:1
ASTM-Cyanide		70	0.115	0112	97.4
ASTM-Ammonia		33	15.0	14.2	94.7
ASTM-Ammonia		33	150	147	98-0
ASTM-Ammonia		33	500	513	102.6
ASTM-Ammonia		33	500	4.99	99.8
pH, Non-Aqueous		489	700	7.07	101.0
TCLP-Arsenic, ICP		5711	2.00	2.03	101.5
TCLP-Barium, ICP		5713	2.00	1.96	98.0
TCLP-Cadmium, ICP		6598	1.00	0.969	96.9°
TCLP-Chromium, ICP		5702	2.00	1.96	980
TCLP-Lead, ICP		5906	2.00	196	98.0
TCLP-Mercury, CVAA		1548	0.0025	0.00262	104.8
TCLP-Selenium, ICP		5517	2.00	1.95	97.5
PCBs 8082 NonAqueous					
PCB-1016		204	250	268	107.2
PCB-1260		204	250	270	108.0
PCBs 8082 NonAqueous	-				
PCB-1016		204	750	740	98.7
PCB-1260		204	750	776	103.5
Reactive Sulfide		962	390	400	102.6



QUALITY CONTROL REPORT

BLANK ANALYSIS

BURNS & MCDONNELL 2601 West 22nd Street Oakbrook, IL 60523

Ms. Margaret Kelley

04/27/2001

Job Number: 01.03541

Prep Run Blank Reporting Analytic Analytic Reporting Analytic Analytic Results Units Eimit Method	
## Batch Batch Analysis Reporting Analytic Number Number Results Units Limit Method ASTM-COD	
Analyte Number Number Results. Units Limit Method ASTM-COD 23 <20 mg/L 20 SM 5220 ASTM-Cyanide 70 <0.005 mg/L 0.005 Flashpoint 757 <72 Degre 72 SW 1010 ASTM-Ammonia 33 <0.50 mg/L 0.50 EPA 350. ASTM-Ammonia 33 <0.50 mg/L 0.50 EPA 350. Solids, Total 3934 <0.1 % 0.1 SM 2540 TCLP Metals Extraction 1394 extracte SW 1311 TCLP-Arsenic, TCP 3694 5711 <0.20 mg/L 0.20 SW 6010B TCLP-Cadmium, TCP 3694 6598 <0.010 mg/L 0.010 SW 6010B TCLP-Chromium, TCP 3694 5702 <0.040 mg/L 0.040 SW 6010B	
ASTM-COD ASTM-Cyanide Flashpoint ASTM-Ammonia ASTM-Ammon	cal
ASTM-COD ASTM-Cyanide 70	i
ASTM-Cyanide 70 ,<0.005 mg/L 0.005 Flashpoint 757 <72 Degre 72' SW 1010 ASTM-Ammonia 33 <0.50 mg/L 0.50 EPA 350. ASTM-Ammonia 33 <0.50 mg/L 0.50- EPA 350. Solids, Total 3934 <0.1 % 0.1 SM 2540 TCLP Metals Extraction 1394 extracte SW 1311 TCLP-Arsenic, TCP 3694 5711 <0.20 mg/L 0.20 SW 6010B TCLP-Barium, TCP 3694 5598 <0.010 mg/L 0.010 SW 6010B TCLP-Cadmium, TCP 3694 5598 <0.010 mg/L 0.040 SW 6010B TCLP-Chromium, TCP 3694 5702 <0.040 mg/L 0.040 SW 6010B	
Flashpoint 757 <72 Degre 72 SW 1010 ASTM-Ammonia 33 <0.50 mg/L 0.50 EPA 350. ASTM-Ammonia 33 <0.50 mg/L 0.50 EPA 350. Solids, Total 3934 <0.1 % 0.1 SM 2540 TCLP Metals Extraction 1394 extracte SW 1311 TCLP-Arsenic, TCP 3694 5711 <0.20 mg/L 0.20 SW 6010B TCLP-Barium, TCP 3694 5793 <0.020 mg/L 0.020 SW 6010B TCLP-Cadmium, TCP 3694 5598 <0.010 mg/L 0.010 SW 6010B TCLP-Chromium, TCP 3694 5702 <0.040 mg/L 0.040 SW 6010B	
ASTM-Ammonia 33 <0.50 mg/L 0.50 EPA 350. ASTM-Ammonia 33 <0.50 mg/L 0.50- EPA 350. Solids, Total 3934 <0.1 % 0.1 SM 2540 TCLP Metals Extraction 1394 extracte SW 1311 TCLP-Arsenic, TCP 3694 5711 <0.20 mg/L 0.20 SW 6010B TCLP-Barium, TCP 3694 5713 <0.020 mg/L 0.020 SW 6010B TCLP-Cadmium, TCP 3694 5598 <0.010 mg/L 0.010 SW 6010B TCLP-Chromium, TCP 3694 5702 <0.040 mg/L 0.040 SW 6010B	
ASIM-Ammonia 33 <0.50 mg/L 0.50 EPA 350. Solids, Total 3934 <0.1 % 0.1 SM 2540 TCLP Metals Extraction 1394 extracte SW 1311 TCLP-Arsenic, ICP 3694 5711 <0.20 mg/L 0.20 SW 6010B TCLP-Barium, ICP 3694 5793 <0.020 mg/L 0.020 SW 6010B TCLP-Cadmium, ICP 3694 5598 <0.010 mg/L 0.010 SW 6010B TCLP-Chromium, ICP 3694 5702 <0.040 mg/L 0.040 SW 6010B	
Solids, Total 3934 <0.1	Ĺ
TCLP Metals Extraction 1394 extracte SW 1311 TCLP-Arsenic, ICP 3694 5711 <0.20 mg/L 0.20 SW 6010B TCLP-Barium, ICP 3694 5713 <0.020 mg/L 0.020 SW 6010B TCLP-Cadmium, ICP 3694 5598 <0.010 mg/L 0.010 SW 6010B TCLP-Chromium, ICP 3694 5702 <0.040 mg/L 0.040 SW 6010B	L
TCLP-Arsenic, ICP 3694 5711 <0.20 mg/L 0.20 SW 6010B TCLP-Barium, ICP 3694 5713 <0.020 mg/L 0.020 SW 6010B TCLP-Cadmium, ICP 3694 5598 <0.010 mg/L 0.010 SW 6010B TCLP-Chromium, ICP 3694 5702 <0.040 mg/L 0.040 SW 6010B	
TCLP-Barium, ICP 3694 5713 <0.020 mg/L 0.020 SW 6010B TCLP-Cadmium, ICP 3694 5702 <0.040 mg/L 0.040 SW 6010B TCLP-Chromium, ICP 3694 5702 <0.040 mg/L 0.040 SW 6010B	
TCLP-Cadmium, ICP 3694 5598 <0.010 mg/L 0.010 SW 6010B TCLP-Chromium, ICP 3694 5702 <0.040 mg/L 0.040 SW 6010B	
TCLP-Chromium, ICP 3694 5702 <0.040 mg/L 0.040 SW 6010B	
Tens-Circonitium, Ide	
mgr 1 4 TGD 2694 5906 <0.200 mg/T; 0.200 SW 6010B	
TCLP-Lead, ICP 3694 5906 <0.200 mg/E 0.200 SW 6010B	
TCLP-Mercury, CVAA 1750 1548. <0.0002 mg/L 0.0002 SW 7470A	
TCLP-Selenium, ICP 3694 5517 <0.20 mg/L 0.20 SW 6010B	
TCLP-Silver, ICP 3694 5921 <0.050 mg/L 0.050 SW 6010B	
PCBs 8082 NonAqueous SW 8082	
PCB-1016 700 204 <250 ug/Kg 250 SW 8082	
PCB-1221 700 204 <250 ug/Kg 250 SW 8082	
PCB-1232 700 204 <250 ug/Kg 250 SW 8082	
PCB-1242 700 204 <250 ug/Kg 250 SW 8082	4"
PCB-1248 700 204 <250 ug/Kg 250 SW 8082	
PCB-1254 700 204 <250 ug/Kg 250 SW 8082	
PCB-1260 700 204 <250 ug/Kg 250 SW 8082	
Surr: Tetrachloroxylene (TCX) 700 204 106.0 % 51-135 SW 8082	
Surr: Decachlorobiphenyl (DCB) 700 204 119.0 % 55-123 SW 8082	
TCLP BASE NEUTRAL COMPOUNDS SW 8270C	
TCLP-Hexachlorobenzene 737 1676 <0.10 mg/L 0.10 SW 8270C	
TCLP-Pyridine 737 1676 <0.10 mg/L 0.10 SW 8270C	
Surr: Nitrobenzene-d5 737 1676 68.0 % 35-114 SW 8270C	

INCORPORATEO

QUALITY CONTROL REPORT

A Cana

BLANK ANALYSIS

BURNS & MCDONNELL 2601 West 22nd Street Oakbrook, IL 60523 04/27/2001

Job Number: 01.03541

Ms. Margaret Kelley

Analyte .	Prep Batch Number	Run Batch Number	Blank Analysis Results		Reporting Limit	Analytical Method
Surr: 2-Fluorobiphenyl Surr: Terphenyl-d14 ASTM-Oil & Grease Reactive Sulfide	737 737	1676 1676 20 962	69.0 70.0 <5 <10	% mg/L mg/kg	43-116 33-141 5.0 10	SW 8270C SW 8270C EPA 413.1 SW 7.3/9034

INCORPORATEO

QUALITY CONTROL REPORT

LABORATORY CONTROL STANDARD

BURNS & MCDONNELL 2601 West 22nd Street Oakbrook, IL 60523

Ms. Margaret Kelley

04/27/2001

Job Number: 01.03541

	Prep	Run			, and f	:	
	Batch :	Batch		True,	Conc	_	LCS
	Number	Number		Conc.	Found	· · ·	% Recovery
Analyte	Hayayea				1.35	7	
		23	1 5	25	27 -	s 3 1.	108.0
ASTM-COD :		23	F	100	96	\$ -	96.0
ASTM-COD		70		0.191	0.192		1.00 . 5
ASTM-Cyanide		70	*	0.048	0.045		938
ASTM-Cyanide		33		15.0	16.0		106.7
ASTM-Ammonia		33		5.00	505	_	101.0
ASTM-Ammonia		33		15.0	15.6		1.04 0
ASTM-Ammonia		33		500	5 05		101.0
ASTM-Ammonia	3694	5711		0.500	0.527		105.4
TCLP-Arsenic, ICP	3694	5713		0.500	0.507		101.4
TCLP-Barium, ICP	3694	6598		0.500	0.500		100.0
TCLP-Cadmium, ICP	3694	5702		0.500	0.505		1.01 . 0
TCLP-Chromium, ICP	3694	5906		0.500	0:509		1018
TCLP-Lead, ICP		1548		0.0025	0.00266		1,06.4
TCLP-Mercury, CVAA	1750	5517		0.500	0.508		101.6
TCLP-Selenium, ICP	3694	5921		0.500	0.494		988
TCLP-Silver, ICP	3694	594I		0500	023.2		
PCBs 8082 NonAqueous		204	*	2500	2987		119,5
PCB-1016	700	204		2500	2933		117.3
PCB-1260	700			100	120		120.0
Surr: Tetrachloroxylene (TCX)	700	204		100	136	SURROU	136.0
Surr: Decachlorobiphenyl (DCB)	700	204		100	700		
TCLP BASE NEUTRAL COMPOUNDS				80	63		78.8
TCLP-Hexachlorobenzene	737	1676			38		47.5
TCLP-Pyridine	737	1676		80	74		74.0
Surr: Nitrobenzene-d5	737	1.676		100			70.0
Surr: 2-Fluorobiphenyl	737	1676		100	70 75	-	75.0
Surr: Terphenyl-d14	737	1676		1.00			98.0
ASTM-Oil & Grease		20		100	98		8.7
Reactive Sulfide		962		390	34		

Test/merica

QUALITY CONTROL REPORT MATRIX SPIKE/MATRIX SPIKE DUPLICATE

04/27/2001

Ms. Margaret Kelley BURNS & MCDONNELL 2601 West 22nd Street Oakbrook, IL 60523

Job No: 01.03541

Job Description: #27193-3.06; Rogers Park South/Chicago

			•									
	Prep	Run			漢	Matrix		MS	MSD			
	Batch	Batch	Sample	Spike		Spike	MSD	Percent	Percent			Sample
Analyte	Number	Number	Result	Amount	Units	Result	Result	Recovery	Recovery		RPD	Spiked
· ·				÷	4.							
ASTM-COD		23	<20	25	mg/L	27	-26	108.0	104.0		3.8	625059
TCLP Metals Extraction		1394	Leached				Sa Sa		or .			624139
TCLP-Barium, ICP	3694	5713	2.13 -	0.500	mg/L	251	2.55	76.0	84.0		1.6	623996
TCLP-Chromium, ICP	3694	5702	<0.040	0.500	mg/L	0.446	0.454	89.2	90.8		18	623996
	1750	1548	<00002	0.0025	mg/L	0.00299	0.0029	119.6	116.4	;	2.7	625157
TCLP-Mercury, CVAA	1750	1548	<0.0002	0.0025	mg/L	0.00294	0.0029	117.6	116.4	;	10	625032
T.P-Mercury, CVAA iP-Silver, ICP	3694	5921	<0.050	0.500	mg/L	0.447	0.452	89.4	90.4	:	1.1	623996 625032
'CBs 8082 NonAqueous												
- PCB-1016	700	204	<250	2475	ug/kg	3075	3045	124.2	123.0 .		L.0	625032
PCB-1250	700	204	<250	2475	ug/kg	2902	2890	117.3	116.8		04	625032
Surr: Tetrachloroxylene (700	204	108	100	ug/L	116	116	116.0	116.0	(0.0	625032
Surr: Decachlorobiphenyl	700	204	123	100	ug/L	134	132	1340	132.0	:	L.5	625032
Reactive Sulfide	:	962	<1.0	390	mg/kg	25	23	5.4	5.9	8	3.3	6251.91

NOTE: Matrix Spike Samples may not be samples from this job

MS = Matrix Spike

MSD = Matrix Spike Duplicate

RPD = Relative Percent Difference

RPD calculations are performed on the Percent Recovery calculated from the observed Matrix Spike and Matrix Spike Duplicate results.

MSI = Matrix Spike Level Insignificant (<25%) compared to background level.



QUALITY CONTROL REPORT

DUPLICATES

BURNS & MCDONNELL 2601 West 22nd Street Oakbrook, IL 60523

Ms. Margaret Kelley

04/27/2001

Job Number: 01.03541

	Prep Batch	Run Batch	Original Duplicate	
Analyte	Number	Number	Analysis Units	RPD
Flashpoint		757	>200 ->200 - Degree	
ASTM-Oxidizer Screen	70	4	no react no reacti	
Paint Filter Test		626	pass pass	
Solids, Total		3934	80,.8 80.8 %	0 0

NOTE: Spikes and Duplicates may not be samples from this job.

Ms. Margaret Kelley BURNS & MCDONNELL 2601 West 22nd Street Oakbrook, IL 60523 04/27/2001

Job Number: 01.03541

IEPA Cert. No.: 100221 WDNR Cert. No.: 999447130

Project Description: #27193-3.06; Rogers Park South/Chicago

CASE NARRATIVE

No analytical exceptions were noted outside of routine method protocols.

Test/merica

			- I N	COSSOSA	7	=	n
KEY TO	ABBREVIATIONS	and	METHOD	REFERENCES ~	•	-	-

Less than;	When appearing	in the	results	column	indicates th	e analyte	was not	detected a	ic or
above the re	ported value.								

N/S : No coliform bacteria were present and the opinion is satisfactory

P/U : Coliform bacteria were present and the opinion is unsatisfactory.

mg/L : Concentration in units of milligrams of analyte per liter of sample. Measurement used for

aqueous samples. Can also be expressed as parts per million (ppm).

ug/g : Concentration in units of micrograms of analyte per gram of sample. Measurement used for

non-aqueous samples. Can also be expressed as parts per million (ppm) or mg/Kg.

ug/L : Concentration in units of micrograms of analyte per liter of sample Measurement used for

aqueous samples. Can also be expressed as parts per billion (ppb).

ug/Xg : Concentration in units of micrograms of analyte per kilogram of sample Measurement used for

non-aqueous samples. Can also be expressed as parts per billion (ppb).

TCLP : These initials appearing in front of an analyte name indicate that the Toxicity Characteristic

Leaching Procedure (TCLP) was performed for this tests

Surr: : These initials are the abbreviation for surrogate. Surrogates are compounds that are chemically

similar to the compounds of interest. They are part of the method quality control requirements.

: Percent; To convert ppm to %, divide the result by 10,000.

To convert % to ppm, multiply the result by 10,000.

ICP : Indicates analysis was performed using Inductively Coupled Plasma Spectroscopy.

AA : Indicates analysis was performed using Atomic Absorption Spectroscopy.

GFAA : Indicates analysis was performed using Graphite Furnace Atomic Absorption Spectroscopy.

PQL : Practical Quantitation Limit; the lowest level that can be reliably achieved within specified

limits of precision and accuracy during routine laboratory operating conditions.

Method References

ASTM "American Society for Testing Materials"

EPA "Methods for Chemical Analysis of Water and Wastes", USEPA, EPA 600/4-79-020, Revised March 1983.

EPA "Test Methods for Organic Chemical Analysis of Municipal and Industrial Wastewater", EPA 600/4-82-057, July

1982..

SDWA "Methods for the Determination of Organic Compounds in Finished Drinking Water and Raw Source Water", USEPA,

September 1986.

SDWA "Methods for the Determination of Metals in Environmental Samples", Supplement I USEPA, EPA-600/R-94/111, May

1994.

SM "Standard Methods for the Examination of Water and Wastewater", APHA-AWWA-WPCF, 18th Edition.

SW "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", USEPA, SW-846.

CS INCORPORATEO

ATTACHMENT: CHAIN OF CUSTODY

Following are the chain of custody documents associated with the samples pertaining to this report.

850 West Bartlett Road Bartlett, IL 60103 · Bartlett Division Testian merica

Phone: 630-289-3100 Fax: 630-289-5445

China Client #: クロとりと 20/05 CAA 3 Client Name Address:

To assist us in using the proper analytical methods, is this work being conducted for regulatory purposes? Compliance Monitoring

Project #: Project Name:

State: 00000 Site/Location ID: Report To:

Fax (22) 990

ION GASS

Sampler Name: (Print Name)

BROOK

Jarono

Project Manager:

City/State/Zip Code:

Telaphone Number: 1030-090 C

Involce To:

PO# Analyze For Quote #: Matrix Preservation & # of Containers Sampler Signature: T. Olsogram

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2201 West Campbell Park Drive Chicago, Illinois 60612-3501 Tel: 312.733.0551 Fax: 312.733.2386 e-mail address: STATinfo@STATAnalysis.com AIHA accredited 10248, NVLAP accredited 101202-0.

May 14, 2001

Margaret Kelly Burns & McDonnell 2601 W. 22nd Street Oak Brook, Illinois 60523-1229

Phone: (630) 990-0300 Fax: (630) 990-0301

Re: Project Number/Name:

27194-4.07, Peoples-Rogers Park Main & East

STAT Project Number:

STAT Sample No.: 917057

Date Received:

May 3, 2001

701818

Dear Ms. Kelly:

Enclosed are the analytical results for the above referenced project. The sample was analyzed as per the enclosed chain of custody.

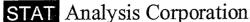
All analyses were performed in accordance with methods from the USEPA publication <u>Test Methods</u> for Evaluating Solid Wastes, <u>Physical/Chemical Methods</u>, SW-846, 3rd Edition, December, 1996. Specific method references are listed on the analytical report.

All analyses were performed within the established holding times, and all quality control criteria, as outlined in the method have been met. QA/QC documentation and raw data will remain on file for future reference.

Thank you for the opportunity to serve you and we look forward to working with you in the future. If you have any questions about the enclosed materials, please call me at 312-733-0551.

Sincerely,

Craig Chawla Project Manager



STAT Analysis Corporation:
2201 West Campbell Park Drive, Chicago, Illinois 60612-3547 Tel: 312.733.0551; Fax: 312.733.2386; e-mail address: STATinfo@STATAnalysis.com





Analytical Report

Client:

Burns & McDonnell

Project ID:

27194-4.07, Peoples-Rogers Park Main & East

Date Received:

5/3/01

Sample Number:

1, RPM-SB61-005

Date Taken:

5/2/01

STAT Project No.: 701818

Time Taken:

1330

STAT Sample No.: 917057

Date Reported:

5/14/01

Analyte	Result	Units
TCLP Volatile Organic Compounds Method	1311/8260B	
Analysis Date: 5/9/01		
Benzene	3.79	mg/L
2-Butanone	< 0.050	mg/L
Carbon tetrachloride	< 0.100	mg/L
Chlorobenzene	< 0.050	mg/L
Chloroform	< 0.050	mg/L
1,2-Dichloroethane	< 0.050	mg/L
1,1-Dichloroethene	< 0.050	mg/L
Tetrachloroethene	< 0.050	mg/L
Trichloroethene	< 0.050	mg/L
Vinyl Chloride	< 0.100	mg/L
mov n n	1 1 2 1 1 /02 7 0 C	
TCLP Base-Neutral/Acid Compounds Method	1 1311/82/UC	

Preparation Date: 5/4/01		
Analysis Date: 5/4/01		
1,4-Dichlorobenzene	< 0.100	mg/L
2,4-Dinitrotoluene	< 0.100	mg/L
Hexachlorobenzene	< 0.100	mg/L
Hexachlorobutadiene	< 0.100	mg/L
Hexachloroethane	< 0.100	mg/L
o-Cresol	< 0.100	mg/L
m&p-Cresol	< 0.100	mg/L
Nitrobenzene	< 0.100	mg/L
Pentachlorophenol	< 0.500	mg/L
Pyridine	< 0.500	mg/L
2,4,5-Trichlorophenol	< 0.100	mg/L
2,4,6-Trichlorophenol	< 0.100	mg/L



Tel: 312.733.0551; Fax: 312.733.2386; e-mail address: STATinfo@STATAnalysis.com

Analytical Report

Client:

Burns & McDonnell

Project ID:

27194-4.07, Peoples-Rogers Park Main & East

Sample Number:

1, RPM-SB61-005

STAT Project No.: 701818

STAT Sample No.: 917057

Date Received: Date Taken:

5/3/01

5/2/01

Time Taken:

1330

Date Reported:

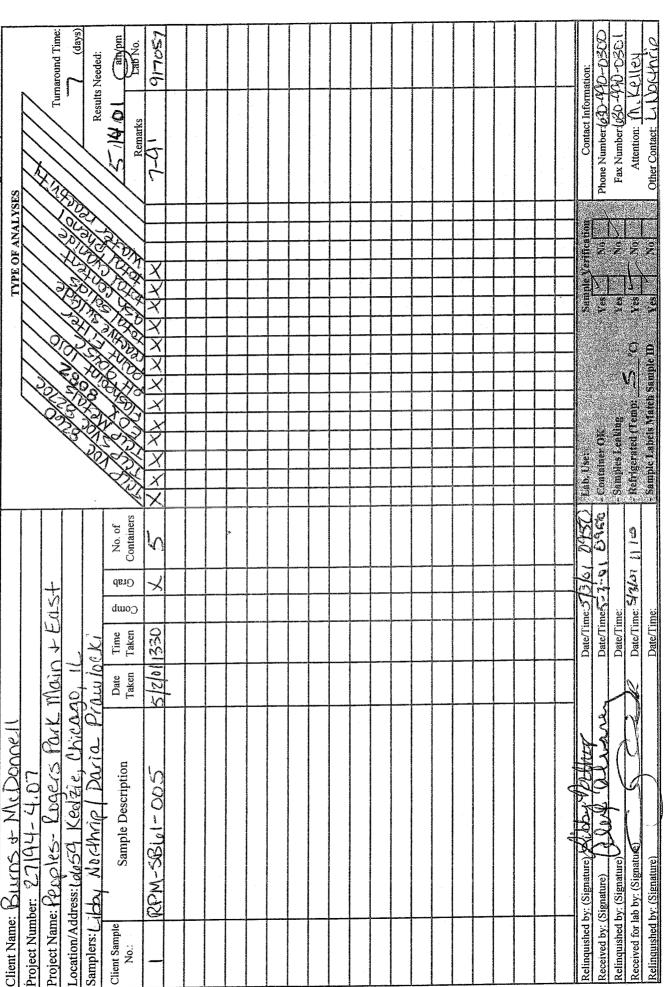
5/14/01

Analyte	Result	Units	Date Analyzed	Method
Total Solids	82.61	%	5/7/01	160.3
Ash Content	79.74	%	5/8/01	160.4
Flash Point (Open Cup)	No Flash @	212 °F	5/3/01	1010M
рН @ 25°С, 1:10	8.71	units	5/3/01	9045C
Paint Filter Li	quid Not Pres	ent	5/3/01	9095
Phenol	1.60	mg/Kg	5/7/01	9065
Cyanide, Total	< 0.25	mg/Kg	5/4/01	9010B/9014
Sulfide, Reactive	<10	mg/Kg	5/9/01	7.3.4.2
Water Reactivity	None		5/3/01	ASTM D5058-C
EOX	80	mg/Kg	5/7/01	9023
TCLP Metals				
Arsenic	< 0.010	mg/L	5/4/01	1311/6020
Barium	1.29	mg/L	5/4/01	1311/6020
Cadmium	< 0.010	mg/L	5/4/01	1311/6020
Chromium	< 0.010	mg/L	5/4/01	1311/6020
Lead	0.052	mg/L	5/4/01	1311/6020
Mercury	< 0.0005	mg/L	5/9/01	1311/7470A
Selenium	< 0.010	mg/L	5/4/01	1311/6020
Silver	< 0.010	mg/L	5/4/01	1311/6020

STAT A lysis Corporation

2201 West Campbell Park Drive, Chicago, Illinois 60612-3547 Phone: (312) 733-0551 Fax: (312) 733-2386 e-mail address: STATinfo@STATAnalysis.com AIHA accredited 10248, NVLAP accredited 101202-0

Turnaround Time: am pm 9 TION Results Needed: Nº. 701818 of S/140 Remarks ラク Environmental Lead and Industrial Hygiene ACCREDITED LABORATORY TYPE OF ANALYSES CHAIN OF CUSTODY RECORD





HERITAGE ENVIRONMENTAL SERVICES, LLC **WASTESTREAM SURVEY FORM**

(877)436-8778 Heritage Form HERWS01

		4
Heritage Use Only		
Quote #	Approval Fee	
Ws#	P.O.	
Sample #	Heritage Contact	

Preferred Service Location:			
Indianapolis, IN ☐ Charlotte, NC ☐ Kansas City, MO ☐ Lemont Heritage Hazardous Landfill (Roachdale, IN) ☐ Heritage Non-Hazardous	t, IL	on, VT Cal o, OH C	ldwell, TX 🗍
1. GENERATOR INFORMATION	2. BILLING INFORMATION	- 7 7	
Heritage Generator Number (if known)	Quote to: Generator		
Generator Name Peoples Gas Light and Coke		Gas Light &	
Address 6659 N. Kedzie Avenue			treet, 20th Floor
City, State, Zip Chicago, Illinois 60645	Contact Name Alison M	, Illinois 6060 Iillerick	71
Tech. Contact Alison Millerick	Phone 312-240-4832		-240-4765
Phone 312-240-4832 Fax 312-240-4765	E-mail	1.00.012	2.00
E-mail a.millerick@pecorp.com	3. MANIFEST MAIL ADDI	RESS Genera	tor 🛛 Billing 🕅
US EPA ID ILD984870139	Contact Name Alison M		
State ID Numbers 0316025027		Gas Light and	
Generator Status LQG ☐ SQG ☒ CESQG ☐ Non-hazardous	Address 130 East Randolph Street 20th Floor		
LQG SQG CESQG Non-hazardous	City, State, Zip Chicago,	Illinois 6060	1
4. SIC Code wastestream was generated under (If code is	2911, 28-,or 3312 complete form HE	RWS03)	
Common Name Manufactured Gas Plant (MGP) W.	aste		
6. Process Generating Waste Excavation of Impacted	Soil		
	ally Hazardous Substances,	Solid, N.O.S.	, 9, UN3077,
 Chemical Composition: Using specific chemical name Attach available analyses or MSDSs. Remember to ide must equal or exceed 100%. 	es, list all constituents presen ntify Form R/TRI Toxic Chem	t in the waste nicals. Total	stream. composition
Constituent		Range	Units
TCLP Benzene	d.	3.79	mg/L
Soil			1%
Coal Tar			%
9. Identify US FPA waste codes D018			
9. Identify US EPA waste codes D018 10. US EPA Form Code US	EPA Source Code		
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10. US EPA Form Code 11. Identify state waste codes None 12. Color Brown Appeara 13. %Solids 100 %Liquids 14. Physical State at 70 °F Solid ☑ Liquid ☐ Sluff solid, are there free liquids? Yes ☐ No ☒ (Is the wastestream pumpable? Yes ☐ No ☒ Flash Point: <100°F ☐ 100-140°F ☐ 1	nce Soil Ods Idge Semi-solid P (If no, will waste dump from to) of 10% slurry): 7 41-200°F >200°F	owder [] (he drum? Yes	al Tar/Soil Sas No No

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WASTE DETERMINATION HERITAGE FORM # HERWS07 **Facility Name:** Rogers Park Sub Shop Facility EPA ID #: ILD984870139 Chicago **Facility Location:** Wastestream #: 1. Common Name: MGP Waste - Non-regulated per Federal Rule 2. Process Generating the Waste: Excavation of Impacted Soils 3. If MSDS(s) are to be used instead of analytical, list out all chemicals that are able to enter this wastestream. Attach MSDS(s). 4. Is the material a solid waste (Solid waste includes any material disposed of or abandoned in lieu of disposal, including materials burned, inclnerated, or recycled and dioxins or furans, see 40 CFR 261.2. Please note that the word solld does not pertain to the physical state of the waste.) ? Yes xx No □ 3. Is the material excluded from being a hazardous waste? (e.g., universal waste, used oil, etc.) Yes 🔾 No 🗘 If yes, note the exclusion and attach documentation. Per Federal Rule: Non-regulated in Indiana/MGP Waste 6. Is the solid waste listed as a hazardous waste (The answer to this question is based upon the process generating the waste or the chemical constituents for virgin materials. An MSDS is attached if virgin material.) Yes D No D 7. The waste is not ignitable (D001) based on: attached MSDS(s). attached analytical.xx generator knowledge. Heritage industrial waste table. 8. The waste is not corrosive (D002) based on: attached MSDS(s). [] attached analytical.xx generator knowledge. Heritage industrial waste table.□ 9. The waste is not reactive (D003) based on: attached MSDS(s). 2 attached analytical.xx generator knowledge. Heritage industrial waste table. 10. The waste is not characteristic for metals (D004-D011) based on: attached MSDS(s). Q attached analytical.xx generator knowledge. 2 Heritage industrial waste table. 11. The waste is not characteristic for volatiles (D018-19, D021-22, D028-29, D035, D039-40, D043) based on: MGP Rule Exemption on Benzene. Attached MSDS(s). @ attached analytical.xx Heritage industrial waste table. 12. The waste is not characteristic for semi-volatiles (D023-27, D030, D032-34, D036-38, D041-42) based on: Attached MSDS(s). D attached analytical xx Heritage industrial waste table. 13. The waste is not herbicides and pesticides (D012-17, D020, D031) based on: attached MSDS(s). attached analytical.xx Heritage industrial waste table. 14. Does the waste require special handling (e.g., fugitive dust, heat producing)? Yes D If yes, identify: 15. The waste does not contain friable asbestos material; Category I nonfriable asbestos-containing material that has become friable; Category I nonfriable asbestos-containing materials that will be or has been subjected to sanding, grinding, cutting, or abrading; and Category Il nonfriable asbestos-containing material that has a high probability of becoming or has become crumbled, pulverized, or reduced to powder by the forces expected to act on the material. 16. The waste does not contain PCB's and is not a Department of Transportation Hazardous Material. 17. The waste does not exhibit the presence of heat, or the capability of generating heat, or other significant risks that the particular waste may present in any reasonable anticipated handling, transportation, storage, processing, or reuse of that waste. Certification I hereby certify that all information submitted herein and attached contains true, accurate and complete descriptions of this waste and will notify Heritage Environmental Services, LLC (Heritage) if information on this form changes. The non-hazardous industrial waste represented above is not a hazardous waste. A waste determination was performed on this waste in accordance with 40 CFR 240-299 and 40 CFR 761. The characteristics of this waste have not changed since a waste determination was performed. I will notify Heritage if the characteristics of this waste change. For wastes generated in Indiana and/or landfilled in Indiana the waste determinant was done in accordance with IC 13-20-7.5-2 ncumentation that supports the waste determination will be made available, upon request, to the landfill and the Indiana Department of

Title:

Printed Name:

Generator's Signature:

ivironmental Management.

Side 1 of 2

BEAVER OIL COMPANY WASTE SURVEY FORM

THE (40 CFR 264 CEPT THE WASTE	.12): ACCEPTANCE OF THE C THE GENERATOR IS SHIPPIN	BENERATOR'S WASTE IND G.	ICATES THAT BEAVER O	IL HAS THE APPROPRIATI	PERMITS FOR AND WILL
GENERATOR NAME: FACILITY ADDRESS:		Kedzie	FACILITY CONTACT:	Alison M 312 240-	Tillenck 4832
	Chicago	TL 1645	ILL EPA GEN, #;	0.3/602 TLD9848	5027 370/39
Billing name &	SET ENVIRONME 450 SUMAC A	ental, Inc.	MANIFEST MAILING	Alison M Peoples Gas	illenck. Lightand
DIFFERENT THAN GENERATOR:	Wheeling, I	60090	DIFFERENT THAN GENERATOR:		Pandolph Flo L 100001
NAME OF WASTE:	Vault wat				
is this a us epa haz	ARDOUS WASTE (40 CFR 26	IN TARE X NO	•	DO DISPOSAL CEREMICATE	ON
711	VITO IMPORTAL CONTACT		> PHONE #	847-537-4	22/
	р	HYSICAL/CHEMICAL CHAP	ACTERISTICS OF WAST	E	
lack DES	NONE MILD STRONG	PHYSICAL STATE @ 70 SOUD SEMI-SOLID LIQUID POWDER	MULT	LAYERED X 5%	RCENTAGE 40.1-60 % 0%
	0.1-12.4 X 0.8-1.0 1.5-14.0 1.1-1.2	1.3-1.4 140 1.5-1.7 >20	%F-200 %F	N CUP SED CUP SHOCK AADOLO ETIOLO	SIVE (SENSITIVE ACTIVE
Water Cable oil	CN ITUTAL MUST BE 100 % 95-97% 1-5% 1-Local bons 0-4%		<u>\$</u>		TOTAL (PPM) PESTICIDES AS HERBICIDES CHLORINE
METHOD OF SHIPMENT:	ANTIC	SHIPPING INFO		: "	
DRUM (TY) IS THIS A DOT HAZARDO: PROPER DOT SHIPPING NA	PE/SIZE)	DRUMS NO IF YES, HAZARO		EQUARTERM	ОПТН
A OVED BY:	D.	ATE:	V	VASTE CLASS: PTROVAL #	
REV: 3/97	n				,

WASTE CHARACTERISTICS

ABLE 40 CFR 264.24; MAXIMUM CONCENTRATION OF CONTAMINANTS FOR THE TOXICITY CHARACTERISTIC G=DETERMINATION MADE BY GENERATOR INVESTIGATION / $\Delta=DETERMINATION$ MADE BY GENERATOR INVESTIGATION / $\Delta=DETERMINATION$ MADE BY ACTUAL ANY THIS

TO THE GENERATOR: ANY WASTE WHICH CONTAINS CONSTITUENESS: CONSTITU

CONSTITUENT	REGULATORY LEVEL (mg/L)	CONCEN- TRATION (mg/L)	G	A	CONSTITUENT	REQUISITORY LEVEL BOOK	CONCEN- TRATION (MEAL)	0	1
Arsenic	5.9	₹5. ¢	Y	7.	HEXACHLOROUGHZENE	0.33	< 0.13	T	-
SARILIM.	100,0	<100.0	X		HEXACIR OROGUEADENE	Q.S.	<0.9	X	
SENZENE	0.5	<0,8	¥		HEXACHLOROSHANE	30	<3.0	te	
CADIGUM	1.0	<1 <u>.0</u>	V		LEAD	8.0	< 5.0	1	
CARBON TETRACHLORIDE	0.5	<0.5	15		LINDANS	0.4	<0.4	V	
CHLORDANE	0.03	<0.03	14	. 1	MERCURY	0.2		Y	-
CHLCROSENZIME	100.5	<100.0	1		MERICAYCHLOR	10.0	<u>≤9.7</u> <10.0	×	
CHLOROFORM	6.0	< 5.0	E		MERTLETHYL TEILINE	200.0	< 200.0	÷	
CHBONIN	\$.a	<5.0	7		NITROSENZENE	2.0		뒿	
O-CRESOL	200.5 (*)	<200,0 (*)	K		PENTACHLOROPHENOL	100.0	< 2.0	숛	****
VI-CRESOL	200.0 (*)	< 200.0 (*)	4	- N	PYRIDIAE	8,0	<100.0	计	
-CRESCI	200,0 (*)	< 200.0 (*)	41	- 2	SELENIÚM	1.5.	55.0	}	-
RESOL	200.0 (*5	<290.0 (*)	श्री		SEVER	5.0	<u></u>		\dashv
LETIC ACID	10.0	<10.0	X	-	TETRACHLOROPTHYLENE	0.7	< 5.0 < 0.5	¥	-
4-DICHLOROBENZENE	7,5	<7.5	8	1	TOXAMENE	a.s.		}	
T-DICHLORDETHANE	0.5		6	_	THICH CORDETHY LENG	0.7		E +	4
1-DICHLORGERAVLENE	C.7	€0.7	Ϋ́ I	. 22	LAT-TRICHLOSOPHISMOL	4000	THE RESERVE TO SHARE THE PARTY OF THE PARTY	<u> </u>	
4 ONTROYOUTHE	0.13		*	罐	L4.4-THE ROBORISMOL			\frac{\fin}}}}{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac}{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac}{\frac}}}}}}}{\frac{\frac{\frac{\frac{\fin}}}{\fint}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}	-(
IDRIN	6,68	<0.02	2	-	AA-THIBELYES	20			
PTACHLOS (and its oxids)	C.008		0	. AG .	INAL CHIORIDE	0.2	<0.2	4	1

O. M., AND PACRESOL CONCENTRATIONS CANNOT BE DIFFERENTIATED. THE YOTAL CRESCL CONCENTRATION IS USED.

- 3	T . M.	ALC: U	24	· DA	ZZI V	C. /C
			-		_	-
и						

METAL PPIA	METAL			We to the	
ARSENIC	CHROMELM		33. 38.4		779
SARIUM	MERCURY	SELEMEN		WCAR.	ľ
GADMIUM		SILV O T		710E	
	LEAD	COPPER		A CONTRACTOR	

IS THIS WASTE CLASSIFIED AS A FOOT-FOCE, FORD, DOOT, DOOZ, OR DOTZ-DOAS WASTER IF YES, ENTER UNDERLYING MAZARDOUS CONSTITUENTS AND THEIR CONCENTRATIONS

CHECK THE APPROPRIATE TOC CONCENTRATION:

· < 1%

Benzene: Waste Operations Certification:

DOES THIS WASTE CONTAIN BENZENE WHICH IS REQUIRED TO BE MANAGED AND TREATED IN ACCORDISING WITH THE PROVISIONS OF 40 CFR 61.342 SUBPART (15(2)?

QUANTITY IN ALL WASTE STREAMS

GENERATOR'S CERTIFICATION:

HERRY CERTIFY THAT ALL INFORMATION WHICH I HAVE PROVIDED ABOVE DESCRIBED THE WASTE FREAM THAT IS BEIND OR IS PROVIDED ABOVE DESCRIBED THE WASTE FREAM THAT IS BEIND OR IS PROVIDED TO BE SENT TO BEAVER OIL COMPANY'S HODGKINS, ILLINOIS AND/OR GREEN INDIANA FACILITY I UNDERSTAND IT IS MY RESTOR THAT THE ABOVE INFORMATION IS COMPLETE AND ACCURATE TO THE SEST OF MY KNOWLEDGE.

ALITUADIDED COMME			CONWIS IF	I'm rest of my knowl	ECGE_		
	THEY (ALLADY)	Millerch	TITUS >	Se Engineer	DATE:	8/2/01	
EV: 1/97		**	•	, , , ,	in Maria		

BEAVER OIL COMPANY WASTE SURVEY FORM

CCEPT THE WASTE THE GENERATOR IS SHIPPING.	THE THAT BEASEN OIL HAS THE AFFROMMATE PERMITS FOR AND WILL
GENERATOR NAME: Peoples GAS	FACILITY CONTACT: Alism Millenck.
FACILITY ADDRESS: 101059 North Kentie	PHONE 3/2 240 4832
Chicago IL	ILL EPA GEN #: 03/10025027
	US EPA GEN : ILD 9848 70/39
BILLING NAME & SET ENVIRONMENTAL, INC.	MANIFEST MAKING Alison Millerick
ADDRESS IF 450 SUMAC ROOL	ADDRESS IF Peoples Gas Light and Col
DIFFERENT THAN WACLING, IL 60090	DIFFERENT THAN 136 East Randolph 24h
GENERATOR:	GENERATOR: Chicago IL 60601
NAME OF WASTE Vault water	J
PROCESS GENERATING WASTE: Oil and water from	Vault Plean out
IS THIS A US EPA HAZARDOUS WASTE (40 CFR 281)? X YES NO	
PLEASE PROVIDE APPLICABLE HAZARDOUS WASTE CODES:	ail residue
	- W Car
BROKER SET ENVIRONMENTAL CONTACT SUC MANNIS	CHICAGE 047- 537-9201
PHYSICAL/CHEMICAL CHARA	ACTERISTICS OF WASTE
COLOR ODOR PHYSICAL STATE @ 70	F LAYERS SOUDS PERCENTAGE
NONE SOLID MILD SEMI-SOLID	
STRONG DE LIQUID	BI-LAYERED 5.1-20% 60.1-80% Y SINGLE PHASED 20.1-40% 80.1-100%
DESCRIBEPOWDER	EXACT
ph specific gravity flash po	INT REACTIVITY
_ < 2.1	°F-200 °F OPEN CUP EXPLOSIVE
2.1-4.0 _ 10.1-12.4 \	
EXACT NA EXACT EXACT	
	NA.
CHEMICAL COMPOSITION (TOTAL MUST BE 100 %)	OTHER COMPONENTS - TOTAL (PPM)
Water 95-914	CYANIDES NS PESTICIDES NS
Cable oil 15x	
Petroleum Hydrocarbons Oby	PC8: CHLORINE V
SEEPPING BIFOR	MATION
METHOD OF SHIPMENT: ANTICIPATED VOLUME:	PER:
20 BURK LIQUID W LOTO GALLONS	ONE-TIMEOUNTITIES MONTH
DRUM (TYPE/SIZE) DRUMS	
THIS A DOT HAZARDOUS WASTE? X YES _ NO IF YES. HAZARDA	
ROPER DOT SHIPPING NAME: HAZAYDOUS WASTE LIQU	Dance (and
THE STATE AND THE PARTY OF THE STATE OF THE	nt// n.v.s. (senzere)
ROVED BY:	
ROVED BY:	WASTE CLASS:
	APPROVAL
	HW CODEIS

REV: 3/97

Side 1 of 2

WASTE CHARACTERISTICS

TABLE 40 CFR 381-74: MAXIMUM CONCENTRATION OF CONTAMINANTS FOR THE TOMOGRE CHARACTERISTIC. C = DETERMINATION MADE BY GENERATOR INVESTIGATION / A = DETERMINATION MADE BY ACTUAL ARMS

PROTING CENTRATOR: 4NT WASTE WHICH CONTAINS CONTRIBUTED IN CONTRIBUTED OF THE ARCHITECTURE THAT WASTE MAY BE A PERMITTED OF THE THAT WASTE MAY BE A PERMITTED OF THE PROTOCOLOGY WASTE.

CONSTITUENT	HEGILATORY LEVEL (HIGHL)	TRATION DISAL	G	^	COMETITIENT	TENEST ATTORN	CONCEN-	6	T
ARSINO	5.0	< 9.0	JŸ	1	MEXACMI ORGANIZUM	P. 38 6.4	₹6.19	77	广
EARILIM,	100.0	₹100 0	X		HELACHERSHITABLENE	5.5	<0.5	K	十
BENZEME.	0.5	<0.5	Y		VICTOR OF STREET	30	<4.5	V	+
CADMUM.	1.0	<1.0	V		HEAD .	60	<5.0	1	┢
CARRON TETRACHLORIDE	0.5	₹0,5	7		HINTIANS	0.4	<0.4	K	H
CH DROANE.	0.92	40.00	14		Mercleny	9.1	CD 3	Y.	┝
OH CRORENZEME	190,0	<100.0	Y		METHOXYGRILDE	10:04		Y	
HUSROFORM.	6.0	< 8.0	E	,	MEDIAL STRVEKERDIE	200.0	₹10.0	¥	┝
HROMILIM	5.0	<8.0	18		MTROBENZERE	2.0	< 200.0	2	-
SARSOL	200.0 (*)	<200.0 (%)	E		PROTACHE GROPHENOL	Long	<u> </u>		
4-CHROL	200.0 (%)	<200.0 (*)	Y		PYRUME	50	<100.0	X	-
-CHESOL	200.0 (*)	<200,0 (*)	8		SELEMEN		<5.0		-
RESOL	200.0 (-)	< 200.0 (°)	9	- 18	SAYER	10	<1.0 -	x	-
4-DEKLOROPINOXY. CETIC ACID	10.0	<10.0	X		TETRACHLONOETHIVLENE	0.7	<0.6	X	-
4-DICH OROSONEW	7.5	<7.8	4		TOKAPHENE	-1		삵	
2-DICHLORGETHANE	9.5	<0.5	61	7		O\$		<u> </u>	
1-DICHLOROETROLINE	0.7	<0.7	र्रा		A E TRICHI GROPLING	q 7	The real Property Colonian Colonian Colonian Colonian Colonian Colonian Colonian Colonian Colonian Colonian Co	X	
4-DIMPROTOLUENS	0.13	THE RESERVE OF THE PARTY OF THE	¥		As-Trica segmence	4000:		E V	
COREM	0,03	A STATE OF THE PARTY OF THE PAR	VT	71	The state of the s	3.0		<i>-</i> -	
PTACHLOR LANG Its	0.008		9	漏 .	7.4.4-TP OSLUTERS	0.1	<0.2	X	-

4. AND P-CRESOL CONCENTRATIONS CANNOT BE DIFFERENTIATED. THE TOTAL CRESCL CONCENTRATION IS USED.

70	TAL	METAL	ANAL	YSIS	

METAL POLI AGE	AL SEU SE SEE SEE	
ARSENIC		
BARILAN MERCUR	- Careeria	No. of the last of
	SILVER	arte.
15PAG		

IS THIS WASTE CLASSIFIED AS A FOOT-FORE, FORE, DOOT, DOOZ, OR DOTE-DOAS WASTER IF YES, ENTER UNDERLYING HAZARDOLIS CONSTITUENTS AND THEIR CONCENTRATIONS:

CHECK THE APPROPRIATE TOC CONCENTRATION:

X 21%

BEHIZERE WASTE OPERATIONS CERTIFICATION:

DOES THIS WASTE CONTAIN BENZENS WHICH IS REQUIRED TO BE MANAGED AND WEATED IN ACCO

IF YES, ENTER THE FLOW-WEIGHTED ANNUAL AVERAGE BENZENE CONCENTRATION.__ QUANTITY IN ALL WASTE STREAMS LIDIZI AND DECTHE TOTAL ANNUAL BENZENS

GENERATOR'S CENTIFICATION:

HEREBY CERTIEY THAT ALL INFORMATION WHICH I HAVE PROVIDED ABOVE DESCRIPTION THE WASTE COMMANY IN BEING ON IE.

THE MED TO BE SENT TO SEAVER OIL COMPANY'S HODGKING, ILLINO'S ANDIONISMY, INDIANA, INCIDENTIANO IT IS MY

THE MEDILITY TO PROPERLY IDENTIFY AND CLASSRY MY MATERIAL IN ACCORDANCE WITH STATE AND PROPERLY INCIDENTIANO, I ALSO

THE MEDILITY TO PROPERLY INCIDENTIAND IS COMPANY'S MY MATERIAL IN ACCORDANCE WITH STATE AND PROPERLY INCIDENTIANO, I ALSO PY SED TO BE SENT TO BEAVER OIL COMPANY'S HODGKINE, KILINO'S ANDION'S
RE ASSESSITY TO PROPERLY DENTIFY AND CLASSIFY MY MATERIAL MACCORDANCE
CERTIFY THAT THE ABOVE INFORMATION IS COMPLETE AND ACCURATE TO THE SES

AUTHORIZED SIGNATUREY (Susen) Wills		The same and the s	-/-/-
- Catalog Mills	ricci Title ye	JR ENGINEER DATE:	£ 8/2/01



Metal Buyers and Recyclers 1545 South Cicero Avenue Cicero, Illinois 60804
TEL 708-780-6800
FAX 708-780-0810
DISPATCH 708-780-0079

Dispatch Number		
Date		

Drivers Ticket

	Liel
Start Time	Customer
9 27	Peobles Energy
Arrive	Address Exergy
ID: 19	Johnste
Depart	
•	
End Time	P/U DROP Material
End time	Skids (QTY)
Check One:	Gaylords (QTY)
Pick Up Only Pick Up & Drop	Drums (QTY)
Drop Only	Braillo (Q.1.)
Live Load	Totes (QTY)
Round Trip	Hoppers (QTY)
Wood Load	Hoppers (Q11)
Container Number:	Other (State)
Picked Up	1 20 Stc
BAOHSE	Packing List Attached Cust Ref / Rls No.
Dropped	No Packing List
, re	
Truck Number	Driver Signature Customer Signature
3/2	I wante
White: Office	Copy Yellow: Customer Copy Blue: Driver Copy

☐ Furans

☐ Biohazard

© 2000 EQ - The Environmental Quality Company

☐ Radioactive waste

☐ Explosives



WASTE CHARACTERIZATION REPORT

TO EXPEDITE YOUR WASTE APPROVAL, PLEASE COMPLETE THIS FORM ENTIRELY

Please Choose One EQ Management Facility

(Stabilization and Treatment) D Wayne Disposal, Inc. Site #2 Landfill (Hazardous & Chemical Waste Landfill) Phone: 800 Michigan Recovery Systems, Inc. (Solvent Recycling, Fuel Blending, WW Treatment) Phone: 800	awsonville Road Ypsilanti, MI 48497 EPA ID # MIR 000 033 969
Section 1 - Generator	& Customer Information
Generator EPA ID #IL D 98 48 70 139 Generator Peoples GAS	EQ Customer No. 1160 Involving Company SET Environmental, DIC. Address 450 Some Road
Facility Address 6 659 N Ked-Ge AVE City Churago State IL Zip 60645 County COOK	City Country State IL Zip 60098
Mailing Address (if different) 130 E Randolph 20th Ar City Chilago State IL Zip	Involcing Contact Phone Fax
Generator Contact Alison Millerick Title Phone 312 240 4832 Fax 312 240 4765	Technical Contact SUC MANN S Phone Fax
Section 2 - Shipping and	l Packaging Information
2.1) Shipping volume: 2 × 55 Shipping frequency: 2 One Time Only 2 Annual 2.2) DOT shipping name	2.3)Packaging: (check at that apply) Bulk Solid (Yd ³ < 2000 lbs/yd ³) Bulk Solid (Ton >2000 lbs/yd ³) Bulk Liquids (Gallons) Cubic Yard Boxes
Density:lbs./gallon or lbs./cubic yard (or) Specific Gravity:,	Other (palletized, 5 gal pails etc.) Quoted bulk disposal charges for solid materials will be billed by the cubic of a waste density is less than 2,000 lbs. per cubic yd. If waste density is greater than 2,000 lbs. per cubic yd., then bulk disposal charges will be billed by the ton regardless of the approved container.
Section 3 - Physic	al Characteristics
WASTE COMMON NAME: PPE/Debres	
3.1) Color (describe): VAICS 3.2) Odor (describe): NONC 3.3) Physical state at 70 °F: (check all that apply) Solid Dust Liquid Sludge 5.4) Does this waste contain?: (check all that apply) Free Liquids Metal fines Powders Oily residue Biodegradable sorbants NONE	3.6) Describe the composition of the waste (i.e. key chemical compound soil, water, ppe, debris, etc.): Ple Dirthirm 5 to 10 % Voices Capee / Netherland Total = 100 %
Does this waste contain?: (check all that apply) NONE Asbestos - friable Pyrophoric waste Reactive waste Dioxins Shock Sensitive waste	3.7) Does this waste contain > 50% contaminated soil? • Yes 3.8) Does this waste contain > 50% debris by volume? • Yes (debris is greater than 2.5 inches in size)

		:32		T ENVIRON							P.07	
4.1)	Irovide a detailed de l'Architecture de l'Archit								ble):			:
	ref a	a al	DUS	Trom	Mar	7016	Clens	דעי				
:				·								
		·			······································						•	· · · · ·
D			- (40 000 0									 -
	ed upon RCRA waste		*		-	131 Kul		-G		Was	te Code(s)	
4.2)	Is this an EPA RCR	A listed h	azardous we	iste (F, K, P	or U)?		Yes .	S	Yo :			
4.3)	Is this a MICHIGA!	N hazardou	is waste (Ot	her than RCI	RA)?		Yes	Ç ≇î	vio.		·	
4.4)	Is this a MICHIGAN	y nonhazar	dous liquid	industrial w	aste?		☐ Yes	7	vo '			
4,5)	Is this a UNIVERSA	L waste?					O Yes	⊠ i	No .			
4.6)	Does this waste exce	ed LDR tre	atment stan	idards?			Q Yes	(23)				
	Is this an EPA RCR				2001_23643	17	Yes	50 i				
	What is the flash poin			3) ⊅123		•	390-140°F		0-1 30 5E	2 >200°1	3	
	Is the waste an oxidiz			- '			Q Yes			7-200.		
) What is the pH of th] <2	2-4.9	1		10.1-12		□≥12.5		
4.11)	Does this waste cont	ain reactiv	e cyanide ≥	250 ppm?		•	☐ Yes	SO N				
4.(2)	Does this waste com	ain reactiv	e sulfide ≥	500 pom?			☐ Yes	53 N				:
	is the waste surcharg						☐ Yes	2 N				***
								. •				
Code		tory Level	•	entration		Code	R	egulatory	Level		entration	
D004		P (mg/L)	1	above)				TCLP (n			above)	;
D005		100		Above_ Above_		D024	m-Cresòl		200		Above	
D006		1	A Relow	DAbove_	A March Section Section 1	D025	p-Cresol		200		/ DAbove	
D007	•	5	M Below	OAbove_		D026	Cresols	w. 	200	1	/ Above	:
D008		5		Above		D028	1,4-Dichlorobe		7.5 0.5	1	Above	
D009	Mercury	0.2	1	Above	····	D029	1,1-Dichloroeth		0.7		Above	
010	Setenium	1		Above		D030	2,4-Dinitrotolu	•	0:13		Above	
D011	Silver	5	Below	DAbove		D031	Heptachlor	O.I.Ģ	0.008		Above	
D012	Endrin	0.02	Bclow	DADOVE_		D032	Hexachloroben	zene	0.13		DAbove	7
D013	Lindane	0.4	🔀 Below	QAbove_		D033	Hexachlorobuta		0.5		DAbove	
D014	Methoxychlor	10		Above_	·	D034	Hexachloroetha	me	3.0		Above =	
D015	Toxaphene	0.5		Above_		D035	Methyl Ethyl K	etone	200	D Below	Above	J.F
D016	2.4-D	10	Below	Above_		D036	Nitrobenzene		2	🖫 Below	DAbove	
D017 D018	Z.4,5-TP(Silvex) Benzene	1	Below Bon -	QAbove_		D037	Pentachlorophe	nol	100	Below	Above	3
D019	Carbon Tetrachloride	0.5 0.5	AN Below	Above	1	D038	Pyridine	•	5	Bclow	Above	
D020	Chiordane	003	Relow	Above_		D039	Tetrachloroethy		0,7:	Below	DAbove :	
D021	Chlorobenzene	100	Below	Above_	,	D040	Trichloroethyle		0.5	A Below	OAbove	<u></u>
D022	Chloroform	6.0	12 Below	Above_			2.4,5-Trichlorop		400		Above	
D023	o-Cresol	200	Below	QAbove_			2,4,6-Trichlorop		2		OAbove	
4.14) 7	The hazardous constit	uent inform	nation is ha	sed on DA	nativeis (Pla	12043 1208 200	Vinyl Chloride		0.2		Above	;
								Gener	ator Knoy	vieuge	Both	3
	f this is a characterist	to (D-tode	O) Hazardo	Section 5	o it contain	underig	ing hazardous co	onstituents	(List in S	ecton5)?	Yes UNO MI	N/A
	Re	view the fo	allowing ite	ms in the FC	- C <i>onsu</i>) Resource	uent L Guide s	nformation nd indicate their		المراجعة والمراجعة			
	t) WAOC ((Michigan	Volatile Or	ganic Comp	ounds) 2) CCV(OC (Subpart CC	Volatile (nons bero Deserio Ci	w; ampounds)		
	3) UH	C (Underly	ung Hazard	ous Constitu	ients)	4) T	RI (Toxic Releas	se Invento	ry Constit	uents)		
Y 17 -	in in	dicate all	constituents	in your was	ie stream, t	heir cor	centrations, and	circle Yes	or No for	UHC:		
	IC?					-	UHC?					
	-No					-	Yes-No Yes-No					_
	-No			·			Yes-No	-	- 			-
									<u></u>			

HOT OT FOR				ı.u
4	Section 6 - PCH	& TSCA Information		
6.1) What is	the concentration of PCBs in the waste? None	10-3 ppm 48 p	0 50 100 bon	□ 500+ppm
6.2) Does the	waste contain PCB contamination from a source with	rin a concentration, 250 prim	? Q Yes	No
P.3) Light th	a waste contain free liquids? (use paint filter test)			No.
6.4) Has this	waste bean processed into a non-liquid form?			No
If yes, w	that was the concentration of PCBs prior to processin	BY MA	□ 0-499 Her	3.500+ pper
on ond el (E.d	reliquid PCB waste in the form of soil, rage, debric o	of Other Contaminated medi-		No
5.5) Are you	t PCB capacitor manufacturar or a PCB equipment m	anuflature 7	Dv. S	
O. V. MAR EVG 1	CB Aricle (e.g., transformer, hydraulic machine, PC	B-contaminated electrical	quipment) best dre	ined/flushed
of all PC	Bs and deconteminated in accordance with 40 CFR 76	61.60(HY) (MINA		No
	Section 7 - Benzene	NESHAP Toppend	7es	
CODES	7.1) Does this waste stream contain Sonzene? (If	"ao" to 7.1, picase skip to	section 8)	☐ Yes S
2812 1836 2875	7.2) Ones the waste stream come from a facility w	ith one of the SIC codes lie	ted under NESHAP	7 Dyes
2815 2841 2879 2816 2842 2891	7.3) Does your company manage waster from feet	lities with Total Annual Ba	name (FAB) 210 M	bycar Dya
2819 2843 2892	"7 15 you answered "NO" to question 7.2 AND 7.	I please stdy to Section &		T
2821 2844 2893 2822 2851 2895	7.4) Does the waste contain >10 % water?		Ć Y.	□ No
2823 2861 2899	7.5) What is the TAB quantity for your facility?	Me'Y		
2824 2865 2011 2833 2869 3312	7.6) Does the weste contain >1.0 mg/kg total Bonz	tend?	BYG	סאם
2834 2873 4953 2835 2874 9511	7.7) What is the total Bonzane concentration in you	or water)tercer		mw.
	(Do not use TCLP unalytical results. Aca	rplable laboratory methody in	obeda 8020, 8240, 826	0. 607. and 614.)
	Section 8 - Waste Cons	thurst Indiameter	134 2 1	
8.1) Does this waste (8.2) Does this waste (8.3) Is this waste subj	APLETE FOR MICHIGAN DISPOSAL WASTE TREAS COURSIN any "Potentially Odorous Constituents" as defined in the EQ Contain any MVOC constituents as defined in the EQ CONTAIN ANY SOUTH CONTROL OF THE CONTROL SOUTH CONTROL OF THE CONSTITUENTS AND IT	offined in the SQ Resource Resource Quide? (VOCs) Volstie Organic C	Gulde?	Yes 智 No I Yes 智 No
		*		•
	Section 9 - Reclamation/ Complete for Michigan	Recycling Sound Blond Receptor Department		•
9.1) Han value (870)	1b):Chlorine(%):Waiss	(%):	Solldars	-
9.2) is this material a r	*** Yes No			
		9.3) is this material for	Washingtor traumo	ALT LLYES LL No.
4	is "yes" please susch the Westewater Addendum	form found in the EQ Res	our cor Cyline.	
			1.00	
certify that all infor	Mation (including strachments) is complete and	ortification		
waste approved file, pany waste shipment f wastes that are transp	ertaining to the waste described herein. I author provided I am contacted and give verbal parmiss or purposes of verification and confirmation. I outed, delivered, or tendered to EQ by Generato thed Standard Terms and Conditions. Alson Mullicol Printerpoles Gas Land F Cohe Co.	ion. I authorise EQ's R	to adding planes assure to o o o the marte describe the marte describe the marte described to the shall be subject. MILLERIU	ntal information to the brain a sample from bed herein, all such to, and Generator sha
illivugh the EG Ressu	He must appear on the EQ Waste Characterization lice (on generator latterhead) must accompanyith the Team is authorized to make certain medificial and waste constituents must be documented by	A-10-100/311/2005	vas alle relied a th	ird-party to certify this:



Peoples Gas North Shore Gas

November 6, 2001

Mr. Joseph Kash Regional Compliance Manager Waste Management 5245 West 38th Street Cicero, IL 60804

Re: CID BioPlant Profile PB7935

Dear Joe,

As we have discussed previously Peoples Gas would like to amend the above referenced waste profile to include excavation water from another manufactured gas plant remediation site. The address and pertinent identification numbers for the additional site is as follows:

Address:

6659 N Kedzie.

Illinois EPA ID#:

0316025027

USEPA/Federal ID#: ILD984870139

All other generator information contained in Section A. Waste Generator Information of the original Waste Profile Sheet remains the same. The original waste profile characterization and analytical information is representative of the excavation water at the Kedzie site. If you have any questions I can be reached at (312) 240-4832.

Sincerely,

Alison E. Millerick

Sr. Engineer

Environmental Affairs

cc: S. Mannis, SET Environmental M. Kelley, Burns & McDonnell

Alican & Phillerich

APPENDIX C
AMBIENT AIR MONITORING DOCUMENTATION

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		Project: Rogg	Time	B.Ochm	9.00 m	(0:00m	:02m	Noon	1:00 pm	2:00m	3:00pm	TOTAL TOTAL		Address of the second s

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	Etwen Whatteren	Remarks	Cheustrusq	the service where	EXPOSING LALLE	X0.01)	1	*	1)						
Sheet	Sampler:	Odors						-				Total Total Total Total Total Total Total Total Total Total Total Total Total Total Total Total Total Total To	And the state of t	The state of the s	
-Time Ambient Air Sampling Field Data Sheet	20/	(ppm)	The state of the s	metalike		A STATE OF THE STA	ferman		entingen						
Real-Time Ambient Air	Sampling Location: Sarth Date: 8-17-0/	Dust Meter (mg/m³) Make: M/IE Model: M/im Ram ID: Ozole 7	(). evo	O -S00	O.cono	0.000	O.ODD	ට.නාව	C.OOD	0.000					
H	Rogers Park Main 27194-4.07	PID Make: Life Systems Model: WiwiKarzo D ID: 110 -00214/	0.0	0,0	00	ი.ი	0.0	O,O	0.0	0.0					
	Project: Roge Project #:	Time	B:00em	7:00 m	0:00m	(1:0gm	Non	1:00m	2:00pm	3:00pm	-		The state of the s	77.00	ve dila mayota a maja pada a maja pada a maja pada a maja pada a maja pada a maja pada a maja pada a maja pada

	Eucmon Whatborn	Remarks	CHLUS HANG CUNCHET ET	CKFOSING LALF	, ,		1)		11	12	The state of the s		The state of the s		
Sheet	Sampler: Cank Weather:	Odors		CORT TAR Stiens	7 1	-	1)	-	77	10					
Sampling Field Data	\$7 	, Benzene (ppm)		and the second	anning de la contraction de la					-		-			
Real-Time Ambient Air Sampling Field Data Sheet	Sampling Location: EAST Date: 877-0/	Dust Meter (mg/m³) Make: MIE Model: MINIEM ID: 02067	0.00	O . 0300	CODO : 9	0.000	().OBD	0.000	0.000	G-00-0					
Re	Rogers Park Main 27194-4.07	Make: KhE Strons Model: Miniffer 200 ID: /10-002/4/	0.0	Contactor 6.0	٥٠٥	0-0	ø Ø	0,0	0.0	0.0					
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	Enverny Whatson	Remarks	CHUSHINS	EXFERING LACK	EXAC.))	11	16	1			The state of the s		
a Sheet	Sampler: Sameth Weather:	Odors						- Parago						
r Sampling Field Dat	WEST 7-01	, Benzene (ppm)		Allengange	annia della controlla cont			The state of the s				Translation with the state of t		
Real-Time Ambient Air Sampling Field Data Sheet	Sampling Location: WES Date: 8-17-01	Dust Meter (mg/m³) Make: Mile Model: Mil Ni Ran ID: O2067	O.030	0.000	0-020	0-00	0.000	0.000	0.000	0.000				
R	Rogers Park Main 27194-4.07	Make: PHE Syrams Model: Winkhe 28D ID: 110-052141	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			-	
	Project: Roge	Time	Bioden.	7:08m	10.00m	1:0Dan	Non	1:00em	2:00m	3:00pm	The second secon			

	DAVETACY M ACHTERIAN	Remarks	EXCAMEING VALISTIZ	XXX 32 17			1)	The state of the s		- The state of the			
Sheet	pler:	Odors	Annua de la companya	1	199	i program							7
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Real-Time Ambient Air Sampling Field Data Sheet	Sampling Location: North Date: 8-26-0	Dust Meter (mg/m³) Make: Mtg Model: Mthilfm ID: 22067	0.000	Ø.000	0.000	0.000	0.000	,				1980	·
R	Rogers Park Main 27194-4,07	Make: (LYV SAKTOMS Model: (LAIM) (LATAN) ID: 116-207141	0.0	0.0	0.0	0.0	0.0	-					
	Project: Roge Project #;		J-82m	9:00 sm	الم <i>دلت</i> : 0]	11:00 sm	Noor				-		

	,	Jankiney Whitester	Remarks	EXCAMPTING	X08 97.47	11		1)						The state of the s
	a Sheet	Sampler: Weather:	Odors	Name of the last o	-	-	-		***************************************	, , , , , , , , , , , , , , , , , , , ,				
	ir Sampling Field Dat	8-20-01	, Benzene (ppm)	•	property			- Constitution of the Cons						
	Real-Time Ambient Air Sampling Field Data Sheet	Sampling Location: Date: R-	Dust Meter (mg/m³) Make: MIE Model: MinikAm ID: DZeb7	0.00	0.000	Ø -980	CDCD	O :OTO		The second secon	-	-		
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	Walter Minether Br.	Remarks	BECAMPTING	VAT - 15-05	11		1)	Production of the Control of the Con		And the second s			
Sheet	Sampler: Chart-T	Odors		1			-						
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Real-Time Ambient Air Sampling Field Data Sheet	Sampling Location: FRST Date: 8-20-0	Dust Meter (mg/m³) Make: Wie Model: Win: Am ID: O200-7	0.030	0.000	O00	0.000	C - 030						
R	Rogers Park Main 27194-4.07	Make: Chr Anstraus Model: Min Chr 2020 ID: 140-002141	0.0	0.0	0.0	6.0	0.0						
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	Surang Marchaeter	Remarks	CACHING (ALL CAL		11	11.					-			
a Sheet	Sampler: Muterney Weather: Sanuary	Odors		1				Transport of the Control of the Cont			***************************************	The state of the s	The state of the s	
-Time Ambient Air Sampling Field Data Sheet	H	Benzene (ppm)		- Control Control	-									7.13.14.14.14.14.14.14.14.14.14.14.14.14.14.
Real-Time Ambient Ai	Sampling Location: Wegg	Dust Meter (mg/m³) Make: Wife Model: Wini Em ID: 02007	O.0330	O.000	C). 000	O.000	0.000							
	Rogers Park Main 27194-4.07	PID Make: <u> </u>	0.0	0.0	0-0	0.0	0.0							
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	Executive WHRIPPER	Remarks	EXCAMENSE	25 72 12 12 12 12 12 12 12 12 12 12 12 12 12		11))	-	1)	11				-
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r Sampling Field Date		Benzene (ppm)		paraged a second second second second second second second second second second second second second second se		Lacation	-	demonstration .				The state of the s		
Real-Time Ambient Air Sampling Field Data Shoot	Sampling Location: Morath- Date: 8-21-01	Dust Meter (mg/m³) Make: Lette Model: HiniKhne ID: Oller	ر مين م	O.0350	0.000	ට රුව්	G.935	0.00	O - 000	0.000			77	
X	Rogers Park Main 27194-4.07	PID Make: LATE Systems Model: Mind Chezar ID: 110-colut	0.0	0.0	O.	O.O	0	0.0	ටු	0.0				
The state of the s	Project: Rogg	Time	O:00om	9.00em	(0:00m	11:00 am	Noon	1:00pm	2:00m	3:00m				

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The second secon		Real-Time Ambient Aj	-Time Ambient Air Sampling Field Data Sheet	Sheet	
Project: Rog Project #:	Rogers Park Main 27194-4.07	Sampling Location: Son 74. Date: 8-21-01	+t2.1	Sampler: Euretree Weather: Surray	Eurona Whestoon
Time	Make: Line Siggons Model: Ulini Enropo ID: 100-000141	Dust Meter (mg/m³) Make: [Mt Model: [Mird Ethu] ID: 020107	. Benzene (ppm)	Odors	Remarks
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Noon	80	0,000	-	management of the state of the	
1:00pm	0,0	0,000	page 1		11
2:00m	Ò	0.000		**************************************	
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				PACIFIC PROPERTY.	

		Sampler: Caunany Monachoraga.	Remarks	excampting 14	700. 400.0	11	1)	1)	13	1)	* 1			
	Sheet	Sampler: Caunting Weather:	Odors	name.										, and the state of
	Sampling Field Data		, Benzene (ppm)	The state of the s	***************************************	ļ	(
Pool-Time Ambient As.	war-rame Ambient Air Sampling Field Data Sheet	Sampling Location: ERST Date: 8-21-01	Dust Meter (mg/m³) Make: Mie Model: Mim Ehm ID: 6200-7	O.000	ئىين.0	0.000	O.000	0.000	0.000	0.80	0.000			
X		Rogers Park Main 27194-4.07	PID Make: 1645 515 tems Model: 1615 1616 ID: 110 - 002141	0.0	00	0.0	άρ	0.0	0.0	0.0	0.0			
The state of the s		Project: Roge Project #:	Time	\$:00sm	9:00 sm	(0:00am	(:00em	787	mCOO:	2:00 pm	S:00m			

	willough Unestablish	Remarks	OKCAMPING	2001 1			1)),	1				
 Sheet	Sampler: Chaptures Weather: Durum	Odors	· ·		- American		<u>, , , , , , , , , , , , , , , , , , , </u>		I					
Sampling Field Data		, Benzene (ppm)	especial control of the control of t	and the state of t	and the second	-	1			And the second s	-			
Real-Time Ambient Air Sampling Field Data Sheet	Sampling Location: West Date: 8-21-01	Dust Meter (mg/m³) Make: WITE Model: KLINI PAWA ID: 02.077	D.000	C)-0000	Ć. ∂ Σ Ω	C - 6000	D.000	Ø.00	0.000	O-000				
H	Rogers Park Main 27194-4.07	PID Make: [CHEDISTONS] Model: [Mini [Che 2020] ID: 110-0024]	0:0	0	0.0	0.0	0.0	0,0	0.0	0.0	-			
	Project: Rogg	Time	B'arm	9:00 sm	10:00 am	1.00 am	7007	me 00:	2:00m	3:00m			-	

	Sampler: Courtney MACHEEFER	Remarks	EXCAMPTING	XEX DITE	O A S	CK CANATING	VAC THE SEX		2)	The state of the s		Annual An		
Sheet	Sampler: Course	Odors				- Table					704.4.1			
· Sampling Field Data	KTH	Benzene (ppm)	Martin Control of the				Annual An	**************************************	- Page Andrews					
Real-Time Ambient Air Sampling Field Data Sheet	Sampling Location: Noketh	Dust Meter (mg/m³) Make: M 1E Model: Mini 1EAM ID: 02067	OCC. O	0.000	"Политичной	O. 000	0.000	0.650	O - CTSD	The second secon	-		-	
R	Rogers Park Main 27194-4.07	PID Make: (Are Systems Model: Min! (Are 2000 ID: 110 - 002141	0.0	0.0	-	0.0	0.0	00	0.0			-		
	Project: Roge Project #;	Time	8.8	9:00 am	me00;0]	11:00sm	Moon	l:00m	2:00m					-

		Real-Time Ambient Ai	-Time Ambient Air Sampling Field Data Sheet	a Sheet	
KOEEIS Fark Main 27194-4,07		Sampling Location: Sarth Date: 8-22-01	01	Sampler: Conte	General Mactorian
Make: Che Systems Model: Minikar Loop ID: 110 -00241	\$ 60 7	Dust Meter (mg/m³) Make: MIE Model: Minffm ID: 02007	· Benzene (ppm)	Odors	Remarks
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	Sampler: Care-twey Mhethroge Weather: Clowery, Chim, Humbolo	Remarks	CKCALA-PING	XIE XXIIX	DATE	1×1×1×1×1×1×1×1×1×1×1×1×1×1×1×1×1×1×1×	20000	,11	7)			
a Sheet	Sampler: Care	Odors	Banaga	Amphipulation of the Control of the	- The state of the			***************************************		770777		-
r Sampling Field Date	CAST 01	Benzene (ppm)	,	pataments .	- Andrewskin - And	,	. (
Real-Time Ambient Air Sampling Field Data Sheet	Sampling Location: Ed. Date: 8-22-01	Dust Meter (mg/m³) Make: Mie Model: Mini Kan ID: 02067	0.000	0.000		0.000	CD 8200	0.000	D. 2000			
1	Rogers Park Main 27194-4.07	PID Make: Che Systems Model: Wivikhe 2000 ID: 110-002141	0.0	00		Ó	0.0	Ó	0.0			,
	Project: Roge Project #:	Time	B'. Oderm	9:00cm	lo:ODam	11:00mm	Nan	1.00pm	2:00em			

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	Laway, Edus, Humis, &.	Remarks	GXCAW-TING	Yes viti	0 4 5	かられている	780 - 10 NA	,					
Sheet	Sampler: Conte	Odors		e de la companya de l		the space of the s							
Sampling Field Data	27	, Benzene (ppm)		***************************************	74	The state of the s	-		,			1990 - Constitution of the	
Real-Time Ambient Air Sampling Field Data Sheet	Sampling Location: WEST Date: 8-22-01	Dust Meter (mg/m³) Make: Mist Model: Mini Can	O. 500	0.020		0.880	0.000	D. 500	O.000				
X	Rogers Park Main 27194-4,07	Make: Kre Systoms Model: Mix Kre 2000 ID: 16-00244	0.0	0.0		0.0	000	000	Ö	The second secon			
	Project: Roge Project #:		B: Osm	7:00 am	10:00sm	11-6Dam	Noon	1:00pm	2:00m		The state of the s		

		Josep Phins, Humas 700	Remarks	EXCENTING WAVE	11	DAN	EXCAMPTING VALKE	7,77	3	H	1	-		
	a Sheet	Sampler: Come Weather: Com	Odors				<i>f</i>	***************************************				Transfer of the state of the st	The state of the s	The state of the s
	r inc ambient Air Samping Field Data Sheet	Johnst	Benzene (ppm)				(. september .			
Real-Time Ambient A:	vear-raine exampleme Am	Sampling Location: Not Date: 8-28-01	Dust Meter (mg/m³) Make: Whye Model: Whin Phun ID: 220127	0.000	0.000	-	C - C - C - C - C - C - C - C - C - C -	0.480	0.000	5.000	6.000		7,000	
<u> </u>		Rogers Park Main 27194-4.07	Make: PID Make: PID Make: PID Model: Win Kat 2000 ID: 16-052141	9.0	ó		0.0	0,0	ÖÖ	0.9	0.0			
		Project: Roge Project #:	Time	0 :00m	7:802mm	10:00am	we00:11	Noon	medo:	2:apm	3:apm			The second secon

		Comerney Whetareson	Remarks	CKCAWTING	X084 07-417		CK CHATISE	11 II	11		11			
	a Sheet	Sampler: Comp	Odors	-	The state of the s	-		(**************************************	•			The state of the s	
. C	The Ambient Air Samping Field Data Sheet	Sasi	· Benzene (ppm)								a a second			
Real-Time Amhiont A:		Sampling Location: 2000	Dust Meter (mg/m³) Make: MIE Model: Mini Km	G-UDD	O .000		0.000	Q:QQ	Ó-080	D.00CD	0.00			
		Rogers Park Main 27194-4.07	PID Make: Kite Suszam K Model: Min! Kite Sam ID: 110-002441	0.0	٥.0	- Company	0.0	0.0	0.0	6.0	6-0			
		Project: Rog	Time	8.com	o sociam	[0:00m	11:Dam	Nan	() Calpan	2:00 pm	3:8m			

		Sampler: Course, 16th Humb 750	Remarks	OKCAMPTING	750 P	SH.	EXCHATING	X081 31 U11		7	1				
	a Sheet	Sampler: Cone Weather: Com	Odors				(-	· · · · · · · · · · · · · · · · · · ·	***************************************			100		
***************************************	r Sampling Field Dat	Cher	, Benzene (ppm)	- Tables			•				— dammagg				
	Real-Time Ambient Air Sampling Field Data Sheet	Sampling Location: Date: 8-23-0	Dust Meter (mg/m³) Make: Mle Mis Ran Model: Mis' Ran ID: O2087	0.000	0.000		() :COO	0.000	0 :COD	0.660	(D.000)				
		Rogers Park Main 27194-4.07	Make: Pro Make: Pro Make: Model: Mode	0.0	0.0		0,0	Ģ	0.0	0.0	ÜÖ		-		
	***************************************	Project: Rog		C. Osm	J. Comm	(O : OD am	1:00 cm	No.	.com	2:00pm	3:00m			A CONTRACTOR OF THE CONTRACTOR	

	Sampler: Cowernay Winetberger Weather: Clovey, Cans, Humo	Remarks	SCANTILY A	70 P	40	OSCHWAINS,	NAME BOX	1	11	No. of the last of	The state of the s		And the second s	THE PARTY OF THE P
Sheet	Sampler: Cox	Odors		1	-									
-Time Ambient Air Sampling Field Data Sheet	Mest	, Benzene (ppm)			and a second second second second second second second second second second second second second second second	And the second s				**************************************		· ·		
Real-Time Ambient Ai	Sampling Location: Water B-28-01	Dust Meter (mg/m³) Make: MiE Model: Misi Ram ID: 02667	D. 000	6 ,080		0.000	U000.CJ	D-00D	0,000	(J. 000.C)				
	Rogers Park Main 27194-4.07	PID Make: 2Ng S. 816mg Model: 141 in 12 220 ID: 110-00214(Ó	Ç	(0.0	0,0	0,0	0.0	0.0				
	Project: Roge Project #:	Time	8:83#	g.Dom	10:00	11:00an	Nan	HODEN	2:00m	3:0p				

	Converses Clauses, Ebo	Remarks	GXCAMPTINS	EXCEMPTING WAVE	THE LOW POINT TO THE	11)			77.5	and the second s		-	
a Sheet	Sampler: Conk	Odors						A Programme Control of the Control o			The state of the s			-
-Time Ambient Air Sampling Field Data Sheet	ert	Benzene (ppm)			***************************************	and the state of t	-	Pillana.						
Real-Time Ambient Ai	Sampling Location: Nouth	Dust Meter (mg/m³) Make: M1(f Model: Wilhiehn ID: 020107	0.000	0.080	0,0%	0.000	D-000C	() ·(2 (b (2)	0.00	The second secon				
	Rogers Park Main 27194-4.07	Maket (Archestons Model: Minwaretons ID: 10-0044/	٥٠٥	0:0	0.0	ර.0	Ô	Ö	Ö	-				
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	acono Unethera	Remarks	EXCALATING VALOR 12.	EXEMMENTED WILL	THURST CONTINUE TO A CO.	1)			11	Provided the state of the state	THE PROPERTY OF THE PROPERTY O			
Sheet	Sampler: Care	Odors	garage .	A STATE OF THE STA	***************************************	1	<u> </u>	******			THE PARTY OF THE P	19 3 4 5 Labert 19 4 5 Labert 19 10 10 10 10 10 10 10 10 10 10 10 10 10		
r Sampling Field Data	- Sentit	, Benzene (ppm)	gamentappe											
Real-Time Ambient Air Sampling Field Data Sheet	Sampling Location: Sampling Location: S-U4-01	Dust Meter (mg/m³) Make: Mle Model: Wimfehm ID: \$206.7	D ,610	O . COD	O-0350	0.0xD	€ 500 P	ර්.ගේට	0.000.0					
<u>-</u>	Rogers Park Main 27194-4.07	PID Make: [Are Systems Model: Wivi [Are 2003 ID: 10-00244]	0.0	0.0	Q Q	Ö	00	. 0.0	0.0					
	Project: Roge	ļ	8:00am	7:00am	10,00	M.COD Sun	Noon	1:00pm	7:00m				-	



		Buterney Whethere	Remarks	O CANALING	CXCAM-CINE TRUE	THEY CHICANO HERBERT		1)	1	1)	And the second s	The second secon		
	a Sheet	Sampler: Con. Weather:	Odors					***************************************					The state of the s	
7	Time Ambient Air Sampling Field Data Sheet	EAST	. Benzene (ppm)	Parametria.	republican			Name of the last o	A CHARLES					
	Real-Time Ambient Air	Sampling Location: E Date: 8-24-61	Dust Meter (mg/m³) Make: Wire (mg/m³) Model: Wini Khm ID: 02007	0.000	O.000	0.00	0.000	0,000	0.000	030· C)				
		Rogers Park Main 27194-4.07	Make: Lue Eysewig Model: Wimi Karwa ID: 110-002441	0.0	0.0	0.0	0.0	0.0	Q Q	0.0				
		Project: Roge Project #:	Time	0:00m	7:0 mm	(0:00en	11:00am	Noon	L'OBen	7.00an				To be sufficient to the superior of the superi

		Cenuran Waratson	Remarks	exchanting	Oxeryting their	1807, USTOING ASPIRET	· Polestina		1			With the state of			
	a Sheet	Sampler: Cerum	Odors					Accepted in the control of the contr	Company (Company)	1					
	r Sampling Field Dat:	E\$1	, Benzene (ppm)			**************************************	e-Minus,	**************************************	The state of the s						
	Real-Time Ambient Air Sampling Field Data Sheet	Sampling Location: WEST Date: 8-24-01	Dust Meter (mg/m³) Make: WLF Model: Min Kmn ID: O2067	0.330	O-000	0.000	0.000	CO . CO	D.00D	0.000	The state of the s				
	X	Rogers Park Main 27194-4.07	PID Make: CHE Systems Model: Minithe Tops ID: 110-002141	00	Ö	0.0	Ö	0.0	0.0	0.0					
***************************************		Project: Roge Project #:	· · · · · · · · · · · · · · · · · · ·	& Odam	1,00am	(B100am	11:00am	7007	1:00 cm	2:00am				-	

	SUMMING ROOF	Remarks	(JANOING	CXCAM-ANG	TO DEFINISH WATER	LOADING SPECIAL	2002		. 4	Third and the state of the stat		
a Sheet	Sampler: Coule Weather: SINN	Odors			· ·			-	***			
r Sampling Field Dat	Lorent	, Benzene (ppm)	**************************************	pagamany480	, management	the state of the s	**************************************		-	, and the state of		
Real-Time Ambient Air Sampling Field Data Sheet	Sampling Location: Mc	Dust Meter (mg/m³) Make: MIE Model: MiN! Km ID: 02667	O.000	0,000	0,000	0.000	0.000	0.000	0.000			
I	Rogers Park Main 27194-4.07	Make: Rhe Systems Model: Mini Khrzon ID: 110-002141.	0.0	۵.0	0.0	0.0	0.0	O O	0.0			
	Project: Rogg		O:Com	9:00am	ID:COm	:00am	Neor	1:00em	2:00 Jan			

Frankhue RANER CONDING SPECIM SPECIAL WASTE Sampler: (Externe Myseyses Remarks 3 5 3 Weather: Snmy 800 Odors l I ĺ 1 Real-Time Ambient Air Sampling Field Data Sheet I Benzene (mdd) 1 l í Sampling Location: 8-27-01 Dust Meter (mg/m³)
Make: Mif Cmr
Model: Mill Cmr 0.000 0.000 0.00 T9050 O . Cato 0.00 CO.000 0.000 Date: Ë Make: Che Systems
Model: Minishe 2500
ID: 10-0m "!" 0 0.0 0 9 00 0 0.0 Rogers Park Main 27194-4.07 9:00em B.ODm 10:00 am 2:00m 11:00 am (80 gm Time Project #: Project: 100



EXCRANTING HESTER DRAWING HESTER DRAWING HESTER DRAWING HESTER DRAWING WASTER SPECIAL WASTE butthey Whethereor Remarks Ξ Jumes Bo = Weather: Odors Sampler: Real-Time Ambient Air Sampling Field Data Sheet Benzene (mdd) 1 Sampling Location: TAST 8-27-01 Dust Meter (mg/m³)
Make: Mi E
Model: Alivi flam 6.000 O.OVO 0.800 000 0.000 0.000 0000 ID: 02067 Date: PID
Make: RAESystrous
Model: Wim Emzers
ID: 10-002141 0 0 Ö 0 ٥ 0.0 O.O Rogers Park Main 27194-4.07 10:00 sm B:00m 9:00 am mea: 1:DOpm 2:00 pm Time 100 1 Project #: Project; _

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	Swimy 80°	Remarks	Catoins	CANAL MASTER	= Demog Hzo	LOADING SPECIAL	2) 87		(F)	 			
a Sheet	pler:	Odors		-	Parameters ((***************************************	program .	-		-		
Sampling Field Date	T	, Benzene (ppm)	***************************************	parame	passed			. Cimpa					
Real-Time Ambient Air Sampling Field Data Sheet	Sampling Location: NeST Date: 8-27-0	Dust Meter (mg/m³) Make: MIE Model: Wiw Edna ID: Dang	0.000.0	රතුව. ර	0.000	O.000	0,000	COM	0.000				
	Rogers Park Main 27194-4.07	Make: Php Phy Make: Model: Ministrator ID: 110-502141	0.0	0.0	00	0.0	00	0.0	Q.Đ				
	Project: Roge Project #:		C.O.S.	9:00 am	10:00 am	mega,	Nool	: CD Gan	2:00m			174.1.0	

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	Convertues MercHorPerc. Snowy 800	Remarks	excharged	Xe M. An-u/	7	11.	1	=	1	- 1				The state of the s
Sheet	pler:	Odors		***************************************					-					
r Sampling Field Data	DETH	, Benzene (ppm)		phone in the second sec	Grants	name.			guerrande	The state of the s			-	
Real-Time Ambient Air Sampling Field Data Sheet	Sampling Location: North Date: 8-28-01	Dust Meter (mg/m³) Make: MtG Model: Win' ferm ID: 62067	0.000	0.000	0.000	0.000	0.00	0000	G.000	(D.0000		-		
<u>I</u>	Rogers Park Main 27194-4.07	PID Make: Like Skrows Model: Niwi Chre 200 ID: Ulo-002141	Q O	0,0	0.0	ò	00	0.0	00	0.0				
	Project: Rog Project #:	Time	8:80 mm	7:00 am	10:00 am	mago.	787	1:00gm	2:00m	3:00m	***************************************			1000000

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	Swimy Bo	Remarks	SCHAFTING STATES	NEW TANK	1	11 .	+		11		· · · · · · · · · · · · · · · · · · ·			
Sheet	pler:	Odors				CANADA CA	days.			-				
r Sampling Field Date	-412×	, Benzene (ppm)	**************************************	tames		Ameng	-	-	•	•	1		-	
Real-Time Ambient Air Sampling Field Data Sheet	Sampling Location: Sarth Date: 8-28-01	Dust Meter (mg/m³) Make: Mif Model: Mim fm ID: 02067	0.000	(D.000	G.080	0.000	0.000	O.000	୦.୦୭୦	0.000				
¥.	Rogers Park Main 27194-4,07	Make: PID Make: Make: Model: Mink Marzano ID: 110-002.141	0.0	80	0.0	Ô	O O	0.6	0.0	0.0	-			
	Project: Roge Project #:		D. Barry	9:00 sum	(O:OD ann	11:0Dam	NooN	i Com	2:00m	3.00pm				

	Show Boo	Remarks	CXCAMTING.	X.91 = 11	11	11	1	-	11		The state of the s			
Sheet	Sampler: Sant	Odors						Water and the state of the stat		· · · · · · · · · · · · · · · · · · ·		-		
r Sampling Field Data	CA3-7	· Benzene (ppm)	-	The state of the s	•	The same of the sa	**************************************		1		,			
Real-Time Ambient Air Sampling Field Data Sheet	Sampling Location: C	Dust Meter (mg/m³) Make: MiE Model: Wini (Am ID: 02061	(S. ØT)	Ó.030	0.000	00.00	0000	0,000	0.000	Ø.00D			100 - 1	
	Rogers Park Main 27194-4.07	Make: CAN Systems Model: Wim HAELD ID: 110-02441	90	0.0	0.0	0.0	0.0	0.0	0.0	00				
	Project: Roge	Time	B. Wenn	9:00 am	10:00 sm	:ODam	Noon	() (M	my 00.7	3:0m				

		Conversion Whiletophake	Remarks	Germang.	12 20 12 N	3			1	11					
	a Sheet	Sampler: Concerts Weather: Samuel	Odors			, and the same of			- Value	-	1				
	' Sampling Field Dat	37	Benzene (ppm)					1		1				-	
leal-Time Amhiant Air	Action Ambient Air Sampling Field Data Sheet	Sampling Location: West Date: 8-28-0	Dust Meter (mg/m³) Make: Whe Model: Min Lym ID: 62007	D. 000	0.000	0.000	D:03D	D.600	0.000	D.000 -	0.000			100	
		Rogers Park Main 27194-4.07	Make: Art Syrams Model: Min Kar 220 ID: 10-00244	0.0	0.0	0.0	QQ Q	0.0	0.0	0.0	0.0				
		Project: Roge	-	Ci:Osm	7:00 am	O:ODenn	mego; 1	787	1:00pm	2:Omn	3:Open		The second secon		

	Sampler: Courtive Whattverer Weather: Sawmy 800	Remarks	EXCAMATING TALLITON	Nuca Pour					7			Transfer of the state of the st		
a Sheet	Sampler: Couker Weather: Nawa	Odors	-	-			. (
r Sampling Field Dat	Nocth	, Benzene (ppm)		parameter of the state of the s										
Real-Time Ambient Air Sampling Field Data Sheet	Sampling Location: Date: 8-29-0	Dust Meter (mg/m³) Make: M1E Model: MMI FAM ID: 02007	0.000	O.000	0.000	O.coo	Q.08D	0.000	Q (QQ)	1				
X X	Rogers Park Main 27194-4.07	PID Make: Resistent Model: Min Knr. 2020 ID: 10 -00 214]	0.0	0.0	0.0	0.0	0.0	0.0	Ĝ					
	Project: Roge Project #:		C C Comme	4:00 sm	(0:00 and	1:Dem	NooN	1:00	2:am		,		7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	- Australia - Aust



	January Wattorpon	Remarks	BKCKW-TING	VALVE BOX		11.			11			-	
Sheet	Sample C	Odors		•							*		***************************************
-Time Ambient Air Sampling Field Data Sheet	>ONTH	, Benzene (ppm)	-		- Transport		1						
Real-Time Ambient Air	Sampling Location: Sampling Location: S-29-01	Dust Meter (mg/m³) Make: Mile Model: Win! Emm ID:	(C).@C	O.00D	0.000	0.000	0.000	Ch.enc	0.000				
4	Rogers Park Main 27194-4.07	Make: April France Model: Nin Larland ID: 110-002141	0.0	0.0	0.0	0.0	0,0	0.0	ලඉ				
	Project: Roge Project #:		B:Bam	GioD am	10:00am	11:00 am	Now	1:00pm	2:00m				

		ENERGY MALDERAN	Remarks	BXCAMTING	XX 12	11	1	17				and the state of t		
	a Sheet	Sample: Neather:	Odors		1			. 1	(and the same of th				
	Sampling Field Dat	J-18	, Benzene (ppm)	**************************************		***************************************	•		-					
Real-Time Amhient Air	Time Autoleut Alf Samping Field Data Sheet	Sampling Location: Engl-C	, Dust Meter (mg/m³) Make: NAIE Model: NIN Phm ID: 020107	0.000	D:000	0.000	O. 0000	O.000	G.000	ano y)			
X		Rogers Park Main 27194-4.07	Make: Programs Model: Min KAE 2000 ID: 10-002.141	0.0	00	0.0	0.0	0.0	0.0	0.0	-			The second secon
	-	Project: Roge Project #:	1	WEDD: 8	J:ODem	me 00:01	11:00am	Nov	1: april	2:00m				

-		PHILETINEN MITHERIDE PERE	Remarks	EXCAMATING	VALVE 1800	1)	17	17	1)	1)				
	Sheet	Sampler: Dangern Weather:	Odors						(, , , , , , , , , , , , , , , , , , ,				And the second s
	r Sampling Field Data	457	, Benzene (ppm)	- Constitution of the Cons		-								
	Real-Time Ambient Air Sampling Field Data Sheet	Sampling Location: West	Dust Meter (mg/m³) Make: MIE Model: Mini Rm ID: 02.06.7	O.000	0.000	0.000	0.000	0.000	G. 2000	C-000			100 100 100 100 100 100 100 100 100 100	
		Rogers Park Main 27194-4,07	Make: Chesistems, Model: Wini Marab	0.0	0.0	0.0	0.0	0.0	0.0	Q.O	-			
	**************************************	Project: Rogge Project #:	1	(3.8°)	J:83m	(0:00×m)	11:00 am	787 287	1:00am	2:00m				

	GOLVETNEY MARTHERAN	ors Remarks	LANDING SPECIM		1)	11	1		11				The state of the s
Data Sheet	Sampler: Weather:	Odors			1	(-111						
ir Sampling Field	Jokat-	(ppm)	-										
Real-Time Ambient Air Sampling Field Data Sheet	Sampling Location: Date: 8-30-0	Dust Meter (mg/m³) Make: M € Model: M M E ID: 02067	0.00	O.890	Ø ()	0.000	(C.€)	00.00	0.000	0.000			
	Rogers Park Main 27194-4.07	PID Make: Chresperend Model: Minj (Chresod ID: _UO-002141	0.0	0.0	Q O	0.0	0.0	0.0	0:0	0.0			
	Project: Rog Project #:	Time	B:Obam	4:00 3m	10:00 am	we Will	NooN		2:00m	T. alm			

- ~	mustusy Whether	Remarks	Cotoms Sacine	u	11								
fa Shoot	Samplek	Odors					-\		1	*			
ir Sampling Field Da	watt	, Benzene (ppm)			**************************************			•					
Real-Time Ambient Air Sampling Field Data Sheet	Sampling Location: Date: & 30-0/	Dust Meter (mg/m³) Make: M/F Model: MimiRmu ID: 02067	0.000	0.000	0.000	0.000	O:sato	0.000	0.600	0.000			
	Rogers Park Main 27194-4.07	Make: 6455/876mS/ Model: 16.00244/	0.0	0.0	0.0	Q	0,0	0.0	0:0	0:0		-	
	Project: Rog Project #:	Time	O: Osm	7:00sm	10:00m	we (0: 1)	Vool .	mda:	7:00m	3.00pm			







				-	(3)								-	
		purman MARIBER	Remarks		COMOING ORGAN, WASTE	11	11.	1)						
	a Sheet	Sampler: Casemer. Weather:	Odors	-			1]					,
	Ir Sampling Field Dat	153	, Benzene (ppm)						dama,	Andrew William Control of the Contro				
Real-Time Amhing	Sampling Field Data Sheet	Sampling Location: West Date: 8-30-0/	, Dust Meter (mg/m³) Make: <i>Mie</i> Model: <i>Livi Am</i> ID: <i>O2067</i>	0.000	O.001D	0/020	(D.030D	0.000	O-02D	0.00	D.Dm		100	
		Kogers Park Main 27194-4.07	PID Make: <i>Presystems</i> Model: <i>Ulivi Kre 2010</i> ID: //o-002/4/	0.0	0.0	Øô	00	0.0	0.0	0.0	0.0			
	-	Project #;	Time	B'Wam	9:00 sm	10:00 Sm	mea;	Noor	1:00gm	2: Dam	2:00m			



				relt						
	K. Niatous Sunny 70°F	Remarks	No Activity	Excavating Photograph	Creating Burn	,				
a Sheet	Sampler: K· A Weather: Sun	Odors	Νο	No	No					
Sampling Field Data	West	Benzene (ppm)			متسسس					
Real-Time Ambient Air Sampling Field Data Sheet	Sampling Location: Was Date: 8/31/01	Dust Meter (mg/m³) Make: MIE Model: Nun Can	O .025	0.018	3.008					
	Rogers Park Main 27194-4.07	PID Make: Latins Model: Muni Reserve ID: 110-002141	0.0	0.0	0.0					
	Project: Roge Project #:	Time	0750	3000	412	+				

	cltas y 70°F	Remarks	No Activity	Breating up painting	Creating boling	0				h				
a Sheet	Sampler: K. Nicotas Weather: Sunny 70°F	Odors	No	No	No									
· Sampling Field Data	KTH	Benzene (ppm)					***************************************	•	,					
Real-Time Ambient Air Sampling Field Data Sheet	Sampling Location: NOCTH Date: &/SI/01	Dust Meter (mg/m³) Make: MIE Model: Mini Rm ID: 03067	610.0	0.230	100.0								 	
**	Rogers Park Main 27194-4.07	Make: LAE Syskms Model: <i>Municu 20</i> ID: 110-002141	0.1	0.0	0.0			The second secon			-	_		
	Project: Roge Project #:	Time	0745	108	202	-								The state of the s

	K. MicHous Sunny 70°F	Remarks	NoActivity	Breating up deshalt peter					
ta Sheet	pler:	Odors		No	-	-	-		
r Sampling Field Da	+110	· Benzene . (ppm)							
Real-Time Ambient Air Sampling Field Data Sheet	Sampling Location: SOUTH Date: 8 3 01	Dust Meter (mg/m³) Make: MM E Model: 114m 21m ID: 6246 7	0.022	0.025					
	Rogers Park Main 27194-4.07	17175 18415	0.1	0.0					
	Project: Rog		090	0611					

-	K-Matass Juny 70%	Remarks	No Activity	Blating Late				-
ta Sheet	pler:	Odors		No No				-
ir Sampling Field Da	8/31/01	(ppm)		-				
Real-Time Ambient Air Sampling Field Data Sheet	Sampling Location: Date: 8 2	Dust Meter (mg/m³) Make: M(E Model: Minigram ID: 62-067	0.82	0.000				
	Rogers Park Main 27194-4.07	PID Make: (24.54.54.84.84.84.16): 110 - 9.21.41	0.0	1.0				
	Project: Rog		1:40	5011				A THE REAL PROPERTY OF THE PRO

				-				WebV						
. ~		enerne Martberon	Remarks	phonesnes	11	11	n ·	EXCENTING ZYIICHEN	3					
-	a Sheet	Sampler: Cantern Weather:	Odors		-	,		-		-		,		
	: Sampling Field Date	OPETH	Benzene (ppm)	and the second s	شده المحمد المحم	And the second s			-	- Interpreted				
	Real-Time Ambient Air Sampling Field Data Sheet	Sampling Location: N	Dust Meter (mg/m³) Make: Wife Model: MiwinGum ID: 02067	0.550	0.000	0.000	0.000	0.000	O. 000	0.000				
		Rogers Park Main 27194-4,07	Make: Che Sigrems Model: Ministrate ID: 10-002141	0.0	0.0	0.0	0.0	0.0	0.0	Q-Q				
	-	Project: Rog Project #:		CiOD ann	100m	10.000m	11:00 2mm	Negly	1.00pm	7:00m				4



		Suny 750	Remarks	Flumping.	Nation 1	[4]	, ,	CANTING 24"	المحالية	1	***************************************			The state of the s	
-	a Sheet	Sampler: Charge Weather: Same				•	1		-			-	TOTAL TOTAL		
	Sampling Field Date	7th-	, Benzene (ppm)			Andrew Control of the	September 1	amente de la constante de la c	Í	**************************************		-			
	Real-Time Ambient Air Sampling Field Data Sheet	Sampling Location: Autiliant Date: 9-4-01	Dust Meter (mg/m³) Make: Mie Model: Wilinirem ID: 02067	0.000	CO.CO.C	0.000	0.600	0.000	C) - C) - C)	G.00D	17.				
	*	Rogers Park Main 27194-4.07	Make: Lhe Sycroms Model: Win the 2020 ID: 110-002141	0.0	0.0	0.0	0.0	0.0	0.0	0.0					,
		Project: Rog Project #:	Time	8:00 m	1.00m	10:00 am	me 00:11	Meroll	mega.	2:00pm					***************************************

		authory M. Methoray	Remarks	Fairmania	WA (ENL	11	. 11	DEPTHING 24"	150 KAN TIME	, ,				
		Weather: Sway 75 °	Odors	. 1	1	name of the second				· · · · · · · · · · · · · · · · · · ·				
Somuling Diolam	TASA Sampung riela Dat		, Benzene (ppm)	de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la				A STATE OF THE STA		manufacture and the second sec			Tradation of the state of the s	
Real-Time Ambient Air Samuling Piold Bot. St	Sampling Location:	Date: 9.4.01	Dust Meter (mg/m³) Make: Mixi Kmv ID: 02067	D.000	O-OND	0.00	ලුව . ර	0.000	0.000	\000-Q				
	Rogers Park Main	27194-4.07	Make: # System8 Model: Win Kare 2010 ID: 110-002141	0.0	0.0	ÔÔ	0.0	0.0	0.0	00				
	Project: Rogo	Project #:		B:003m	4.00 and	10:00 an	;003m	Neon	:00 gm	2:00pm				



UMechanism STOKEN FOR RIMOING Remarks Po O = evering Odors Weather; J. Sampler: 1 l Real-Time Ambient Air Sampling Field Data Sheet Benzene (ppm) Sampling Location: West Dust Meter (mg/m³)
Make: MIE
Model: Winitem
ID: D2067 9-4-6 0.000 C :000 0.00C 0.000 0.000 0.000 0.000 Date: Make: Php Marcars
Model: White the constitutions Q Q Ó **0** 0.0 0.0 0.0 9 Rogers Park Main 27194-4.07 8:00m 7:00 and 10:00 and 2:00 pm 1:00 pm 11:00 ann Time Noon Project #: Project:

· · · · · · · · · · · · · · · · · · ·	-	Wetney MACHEER	Remarks	FILLING VALLE	1)	11) }					
	Sheet	Sampler: Weather:	Odors					1	(, comments			
	-Time Ambient Air Sampling Field Data Sheet	DET#	, Benzene (ppm)				, manufacture and the second s			e e e e e e e e e e e e e e e e e e e			
	Keal-Time Ambient Ai	Sampling Location: NOETH Date: 9-5-0/	, Dust Meter (mg/m³) Make: ************************************	O.000	0.000	0.000	0.000	0000	0.000	6.000			
	.	Rogers Park Main 27194-4,07	Make: Rec Systems Model: Mini Mat Zan ID: 1/0-02/4/	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-		-
		Project: Rog] [0:00 am	1.00 am	10.00	1.00am	1001	1:0Dan	2:00 am			



. ~		Mretheresz	7	Remarks		1225 CALLAS	-	-	11	***************************************))	7	-					
	Sheet	Sampler: Culement	/	Odors		()		,					***************************************		
	Real-Time Ambient Air Sampling Field Data Sheet	+12 ha		. Benzene (ppm)		(,	- (, manufacture de la constantina della constantin					
	Real-Time Ambient Ai	Sampling Location: San77+ Date: 9-5-0/		Dust Meter (mg/m³) Make: <i>从ffE</i> Model: <i>Minj Kan</i> ID: 02067	600	0.66.0	0990	0.000	O-00D	0.500	0-9		3.00	-				
		Rogers Park Main 27194-4,07		Make: LATE STERMS Model: Min Eng 2010 ID: 110-00-14	(3.6	0 .	6.0	0.0	00	\ \C	5					
		Project: Rog Project #:	Time		B'Wann	9,82,12	10:00 and	(Car; 1-1	The Common of th	287	:Opm	200			,			



1		overnay Whedoorog	Remarks	HULLS BULL	2	Z		1	3	11		and the second desired and the second		
	a Sheet	Sampler: Conk Weather: Onn	Odors					1						
	-Time Ambient Air Sampling Field Data Sheet	A87	, Benzene (ppm)			(, consideration of the control of th	-			
	Real-Time Ambient Ai	Sampling Location: EAST Date: 9-5-5/	Dust Meter (mg/m³) Make: 14/15 Model: 14/10/16, 10: 02067	0.00	CO STED	D. 200	0.000	0.000	0.000	D-60D -				
	X	Rogers Park Main 27194-4.07	Make: PID Model: Hin Khrzan ID: 1000 2141	0.0	0.0	0.0	0.0	Q	0.0	Q				
		Project: Rog		Gillam	7:00am	O-colawa	11:00 ann	NOON	W.D.	2:00m				

	Sampler: Cuterany Myetheren. Weather: Summy 95.	Remarks	MUNICIPALIE	ה א	1	1	1		11				
Sheet	Sampler: Cuter Weather: Suma	Odors		-		1	WI						-
r Sampling Field Date	1087	Benzene (ppm)		**************************************		1	· Laurence					erreter erreter erreter erreter erreter erreter erreter erreter erreter erreter erreter erreter erreter errete	The state of the s
Real-Time Ambient Air Sampling Field Data Sheet	Sampling Location: 1/1/ Date: 9-5-2/	Dust Meter (mg/m³) Make: MME Model: Mim Ram ID: 02067	000,0	O · O	୦.୦୯	ande	O.000	0.800	6.00b				
8	Rogers Park Main 27194-4.07	Make: Che Systams Model: Ulini 16.18 200 ID: 110-02.14	0.0	6.0	0.0	0.0	0,0	0.0	O.O	-			
	Project: Roge Project #:		0.00m	/:Dam	10.00 Jum	11-00 am	Moon	:00gm	huda:7		-		

BAILDING BORMS Kemon 29 Scients Sterr AMETINES ALTHORPERE Remarks BACKAULNG å ェ = S Jamos 1 Odors Weather: Sampler: Real-Time Ambient Air Sampling Field Data Sheet Benzene (mdd) Sampling Location: Noerth Dust Meter (mg/m³)
Make: Mie
Model: Minfan
ID: 02067 O.020 O v@DO 0.00 O.O 0.000 0000 0.000 Make: Presstans Model: Kim Krezan 10: 110-002141 0,0 0,0 0.0 0,0 Q O 0 Rogers Park Main 27194-4.07 8:00 mm gibban 10:00m 2:apm 11:00 any indigo; Moon Time Project #: Project:



	Lonay Hattorpon	Odors Remarks	BNILDING			BACKALLING	1		1)			
ampling Field Data Sheet	Sampler: Weather C	. Benzene Od (ppm)										
Real-Time Ambient Air Sampling Field Data Sheet	Sampling Location: ATH Date:	Dust Meter (mg/m³) Make: Mie Model: Min fm ID: 52067	0.000	0.00	0.00	0.00	0000	C :ODD	D-000-		***************************************	-
	Rogers Park Main 27194-4.07	Make: CHESISTEMS Model: Clivil Che 200 ID: (10-002)	0.0	0.0	2.0	9	Q -Q	0.0	6.0	-		
	Project: Ro	Time	2000 2000 2000 2000 2000 2000 2000 200	7:00 am	(0:00 am	(CO)	Noon	/ jagan	2:0pm			•

	and Hetherton	Remarks	(Buldong	Lenening Series	11	BACKFLUNG	1-1	11	-	44 Chammanagan da cha		
Sheet	Sampler: Auerna Weather:	స	1		enterprise de la constitución de	-	*		-			
r Sampling Field Date	Ast	, Benzene (ppm)					- All Andrews					
Real-Time Ambient Air Sampling Field Data Sheet	Sampling Location: FAST Date: 9-6-0/	Dust Meter (mg/m³) Make: Mie Model: Miniam ID: Orbu7	O. O.	0.400	Q10.0	0.000	0.000	0.000	().avo			
<u>H</u>	Rogers Park Main 27194-4.07	Make: Hessystams Model: Min Chr Land ID: 110-0014	0.0	0.0	0.0	6:0	0.0	0.0	0.0			
	Project: Rog		8:00 gm	2.7.	10:00 am	11:002mm	Nan	1:00pm	1.00pm			





	men Macherage	Remarks	Bulland Bouns	KENWING SCHO	16	BACKALLING		1)	ı)				
Sheet	Sampler: Carmon Weather:	Odors		•		(•					
-Time Ambient Air Sampling Field Data Sheet	es 7	Penzene (ppm)	-	(J					,		
Real-Time Ambient Ai	Sampling Location: Nec	Dust Mejer (mg/m³) Make: Wile Model: Win Kan	D.000C	0 200	O.80	0.000	0.000	0.000	J. COO. ()				
	Rogers Park Main 27194-4.07	Trus MC200	0.0	0	0.0	0,0	0.0	0.0	0.0				
-	Project: Rog Project #:	·	C Sam	1 - OU - OU	(C)	A London	2.001	maga-1	2:00m				



JOHRTHEY MAKHORPER BACKALLING Remarks Sampler: Courtney Myrking Weather: Conon, thurit = _ _ 3 Odors (. 1 Real-Time Ambient Air Sampling Field Data Sheet Benzene (ppm) Sampling Location: NogTH Dust Meter (mg/m³)
Make: MiE
Model: Mini f.m. 9-7-01 O.000 080 0.000 G.030 ID: 02067 0.00D 0.00 0000 Date: Make: Php Pip Make: Wate Sigrems
Model: Win Kre Zeoto ID: 110-002141 Ô Ġ Ó 0.0 Rogers Park Main Ö 0 27194-4.07 8:00 sm 9:00em 10:00 am 11:00 am 1.00mm 2:00pm Time NBN Project #: Project:



Weather: 2 Perm Clarey, Humo BREFILLING ONETNON IN THE HOEPER. Remarks ラ 5 = ン 3 Odors Sampler ſ Real-Time Ambient Air Sampling Field Data Sheet I Benzene (ppm) (Sampling Location: Surth Dust Meter (mg/m³)
Make: MIE
Model: Mini Rm 9-7-01 0.000 O.000 0.000 0,000 D: 02067 0.8 0.00 6.000 Date: Make: Reconstant Model: Wini Hr. 2000 ID: 110-002/41 0.0 *O* Ó Ø 0 S O Rogers Park Main 27194-4.07 Q:00 mm B:002m 10:00 am 11:00 am 1:00gm 2:00 pm Mean Time Project #: Project: _





OURTHEY | ARHOGFER There Course through BAKFIUNG Remarks = -Ξ = Sampler: Odors Weather (Real-Time Ambient Air Sampling Field Data Sheet Benzene (mdd) Sampling Location: EAST
Date: 97701 Dust Meter (mg/m³)
Make: Mig Model: Miss Knox.
ID: 02867 0.830 0.000 0.000 0.0 0.000 0.000 0.000 0.000 Date: Make: Hat Sykrems Model: Win! Khr 2000 ID: 16 OSZIGI 0 0.0 0.0 0.0 0.0 Q Q Rogers Park Main 27194-4.07 9:00 am (0:00 sm 11:00 aum 2:00 pm Span New Time Project #; Project:



	Conserved MACHORPOR	Remarks	Q.	SARK FILLING	1			11) ,		Probability of the control of the co		
a Sheet	pler	Odors	Translation of the Control of the Co		110000000000000000000000000000000000000	1		-					
-Time Ambient Air Sampling Field Data Sheet	\$T	Benzene (ppm)	All manufactures and the second secon	•	-	****	1		******				
Real-Time Ambient Air	Sampling Location: West	, Dust Meter (mg/m³) Make: MIF Model: Wini Zhn ID: 22667	0.800	0.000	O.500	0.000	ට.ගුහි	O.000	C. 5000				
X	Rogers Park Main 27194-4.07	Make: Pro Make: Minitar Zaro D: 110-002141	0.0	90	0.0	0.0	0.0	Q. Q	G.8				
	Project: Roge Project #:	Time	0:00 am	(ODam	10:00 am	1:00am	Neek	4 00:	2:00m				





	DWETNES MARCHERPER	Remarks	T S	Empline Mine	TRAC TANK		(I		11		-			
a Sheet	pler:	Odors	On the state of th		•		-					,		
-Time Ambient Air Sampling Field Data Sheet	27H	, Benzene (ppm)	***************************************			enality-page		<u> </u>						
Real-Time Ambient Ai	Sampling Location: 1012-714 Date: 9-10-01	Dust Meter (mg/m³) Make: Mini Arr Model: Wini Arr ID: 02.067	0.00	O.000	O. (SBD	0.000	0.000	0.000	0.0BD -					
M.	Rogers Park Main 27194-4.07	WEENS WEENS WEENS	0.0	0.0	0	0.0	0.0	0.0	0,0					
- **	Project: Rog Project #:	Time	o:Wam	T.Wamn	D:00am	11:00 am	Moon	weda:	2:00pm		**************************************		***************************************	

	men Whichsepan	Remarks	BACUE	Emtajing Those	= -	1	-)	"				
Sheat	Sampler: Weather:	Odors	**************************************	-	-								A STATE OF THE STA
-Time Ambient Air Sampling Field Data Sheat		· Benzene (ppm)	-	- Company	**************************************	and property of						The state of the s	
Real-Time Ambient Air	Sampling Location: Sarth Date: 9-10-0	Dust Meter (mg/m³) Make: Wife Model: Win Em	0.00	0.00.0	0.000	0.000	Q.000	D.00D	0.00c				
1	Rogers Park Main 27194-4,07	Make: (Ar Systems) Model: Lim Chreson ID: 110-002441	0.0	0.0	0.0	٥٠٥	0.0	0.0	0,0	-	-		
	Project: Roge Project #:	Time	0:00 am	W.O.V.	11. Sh.	000 OM	NogN	1:0Dam	2:Dem				



	Swan 750	Remarks	P	EMERINS OF THE STATE OF THE STA	1944 TANK	17)	-)	"	And the property of the contract of the contra		-	
a Sheet	Sampler: Sawring Weather:	Odors				The state of the s							
r Sampling Field Dat	Det T	, Benzene (ppm)		ASSESSMENT OF THE PROPERTY OF		endrithma.	1		**************************************				
Real-Time Ambient Air Sampling Field Data Sheet	Sampling Location: E	Dust Mejer (mg/m³) Make: Mue Model: Win Rm ID: D2067	ල. එක	0.00.0	O.070	0.000	⊘.00D	0.00	0.00p				
,	Rogers Park Main 27194-4,07	Make: Rie Agrems Model: Llin Mr 2010 ID: 110-002141	0.0	0.0	0.0	0.0	0.0	0.0	0.0				
	Project: Rogg		000 am	7:00 am	(0:00 am	: Odam	NOON	i-ODem	2:0pm				



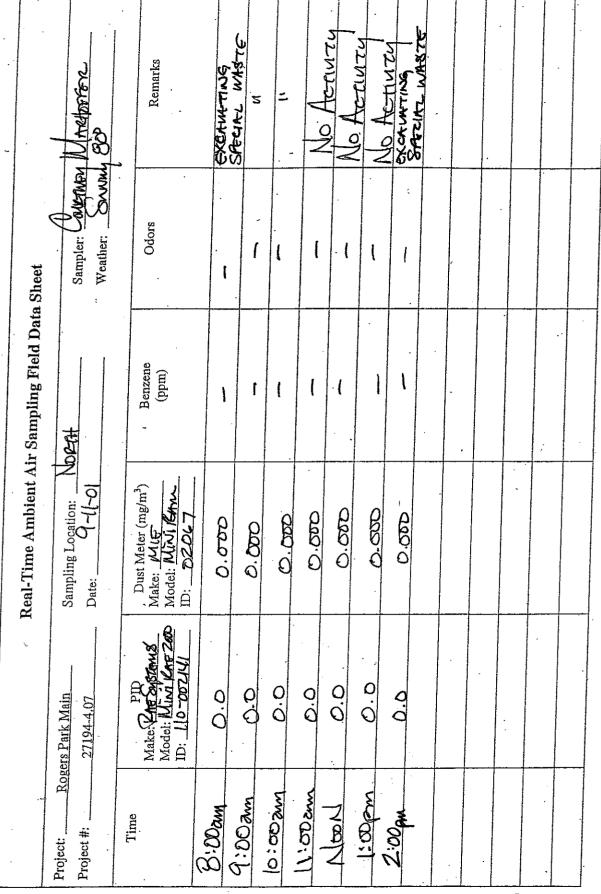




	Wether Whethered	Remarks	4	Contra inchi		11	ŋ	1)	/1	The state of the s			
a Sheet	pler:	Odors	**************************************	, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	. ſ	(C C C C C C C C C C C C C C C C C C C	
r Sampling Field Date	E8T	, Benzene (ppm)			Transfer								The second secon
Real-Time Ambient Air Sampling Field Data Sheet	Sampling Location: Washer: 9-10-01	Dust Meter (mg/m³) Make: Meter (mg/m³) Model: Winkfm ID: 02067	C) .00D	0.000	0.000	O:030	D:020	0.630	Ø.000		 		
R	Rogers Park Main 27194-4.07	Make: Zinc Sustems Model: Win Line 2000 ID: Up-002/4	0.0	0.0	0.0	0.0	0.0	0.0	0.0			-	
	Project: Rog	Time	mega:a	me 00.0	D.SC. Sam	me 00:11	Noon	1:00 pm	2:0pm				

A COLUMN

SPECIFIC WASTE No Herway Exernating Speakl whate No Actury Remarks 2 DANIEL BOD Odors Weather: Sampler: (Real-Time Ambient Air Sampling Field Data Sheet I Benzene (mdd) Popular Sampling Location: 1 Make: MIE Model: Minisem. ID: D2067 Dust Meter (mg/m³) 0.000 0.000 0.000 O.000 0.000 0.000 0.000





	ONLITACY WACHOFTON	Remarks	S. Perland	1) (1)	1)	No. April 1	X A Armin	NO DELL'IN	EXCENTING TO THE	a same was			
a Sheet	Sampler: Owler	Odors			1							The first terms and the second	Trick with the state of the sta
r Sampling Field Dat	277	Benzene (ppm)		1					, quantities				
Real-Time Ambient Air Sampling Field Data Sheet	Sampling Location SowTH Date: 9-11-01	Dust Meter (mg/m³) Make: Mie Model: Min Krim ID: D2 067	0.00	0.000	0.000	0.000	0.000	0.00	O-300				
	Rogers Park Main 27194-4.07	Make: Che Sugrang Model: Miwilthe 200 ID: 110 -002141	0.0	0.0	0.0	0	0.0	0.0	٥٥		-		
	Project: Rogg		800	10:00	1.13	1-00am	287	me (O):	me 00.7				The state of the s

- 7-	erny Whytoware	Remarks	EXCAMPTING SPEAML WASTE	71		20101	- 1	6XC4X+1XG	01 ex 12 12 12 12 12 12 12 12 12 12 12 12 12	CANADA SAN CANADA SAN			
. Sheet	ther:	Odors			(((Operator			-		
Sampling Field Date	<u> </u>	, Benzene (ppm)	anapan anapan anapan anapan anapan anapan anapan anapan anapan anapan anapan anapan anapan anapan anapan anapan					Bayman di					
Real-Time Ambient Air Sampling Field Data Sheet	Sampling Location:	Dust Meter (mg/m³) Make: Whe Model: Whim Ram ID: 02067	0.000	6.000	0.000	0.000	0.000	0.000				Annotation and American Assessment of the second of the se	
#	Rogers Park Main 27194-4.07	Make: ZHE Systems Model: Wini Krezoro ID: 110-002.4/	0.0	0.0	0.0	0	0.0	9,0					
	Project: Roge Project #;	‡	0.00 mg.	O:ODam	II :CDam	NooN	meg.	7:00m					Total district and the second

No Horway EXCHWTING SPECIFIC WASTE Mr. Horror EXCAMPTING SPECIAL WAS TE Remarks SUNMA Weather: Odors Sampler: ((1 Real-Time Ambient Air Sampling Field Data Sheet Benzene (ppm) ١ R H Sampling Location: M Dust Meter (mg/m³)
Make: Mie Model: Minj Effect
ID: 02067 9-11-0 O.000 0.00 0.000 D.000 0.000 C). ODD 0.000 Date:_ Make: PhD Afrews
Model: Win Chrzon
ID: 110-00214 0.0 0.0 0.0 00 0.0 0 00 Rogers Park Main 27194-4.07 B:00am quodam me (): 10:00 am 2: Open 1:00pm Time Project #: Project:



	Sowing BGO	Remarks	EXCHARTING SPECIAL WASTE		-						
a Sheet	pler: (Odors			***************************************		-				
r Sampling Field Dat	oerth -	, Benzene (ppm)									
Real-Time Ambient Air Sampling Field Data Sheet	Sampling Location: Noverth Date: 9-12-01	Dust Meter (mg/m³) Make: WIE Model: Wiwi Km ID: 02067	0.000	080	0.000	0.600	0.000	0.500			
X	Rogers Park Main 27194-4.07	Make: Resurents Model: Mini Re 2010 ID: 10-002141	0.0	0.0	0.0	0.0	0.0	0.0			
	Project: Roge Project #:		9:00 am	10:00 am	weOO.	Noon	1:00em	7.00m			







		Calibra Metaroses	Remarks	exchibiting.	SPECIAL WASTE			1		11				
	a Sheet	Sampler: Carlo	Odors).			40	-	ering.				THIS IS NOT THE PARTY OF THE PA
	Time Ambient Air Sampling Field Data Sheet	T.H-	, Benzene (ppm)	Massa		•	Serger de la constant		***************************************				-	
Real-Time Ambient Air	teal-Time Ambient Air S	Sampling Location: Sauth Date: Q-12-D1	Dust Meter (mg/m³) Make: WIE Model: Mini R#m ID: 02067	0,000	0.00	O cato	0.000	0.00	0.000	6.000 -				
		Rogers Park Main 27194-4.07	PID Make: PRESINSTEMS Model: MiniPhe 200 ID: 110-00214 1	0.0	٥٥	0.0	0.0	0.0	0.0	0.0				
		Project: Rog	Time	\$ 50 m	7:00 am	10:00 swm	we Od:	Noo.	1.00em	2.00 pm	-		***************************************	***************************************

SUMMY BEO EXEMPTING SPECIM WASTE Remarks = 5 ζ. = Odors Weather: Sampler: (١ Real-Time Ambient Air Sampling Field Data Sheet Benzene (ppm) I Sampling Location: LAST Date: 9-12-01 Dust Meter (mg/m³)
Make: Mie
Model: Minikm
ID: D206-7 0.000 0.00D 0.000 Cap o 0.000 6.00 0.000 Make: Are Systems
Model: Mini Che Zond
ID: 110-002-141 0, 0,0 0.0 0.0 O O 0.0 0,0 Rogers Park Main 27194-4.07 8:00am 9:00 am lo:00 sm 2:00 pm 11:00am 1.00 am Time NOON Project #: Project:



		Real-Time Ambient Air	l-Time Ambient Air Sampling Field Data Sheet	Sheet	
Project: Rog Project #:	Rogers Park Main 27194-4,07	Sampling Location: West Date: 9-12-01	\$ 	Sampler: Sukery Weather: Summ	Sampler: Courtines Whe Hoffer Weather: Sunning 850
Time (Make: Phr Systems Model: Mini Parzam ID: 110-002141	Dust Meter (mg/m³) Make: Wife Model: Win/ikm ID: 02067	, Benzene (ppm)	Odors	Remarks
D: Bann	0.0	0.000	1		EXCAMATING
4:00 and	0.0	O.0010	4	1	II WHEN E
me 00:01	0.0	0.030	-	-	
1:00 am	00	0.500	. trends	(11
Noo!	0.0	0.000	. [***************************************	
J. Opm	00	0.000			
7:00mm	0.0	D.000	a managaran and a managaran and a managaran and a managaran and a managaran and a managaran and a managaran an		
-					
				-	





SPEUM WASTE Sampler: Sweether Workhoepen.
Weather: Curry, 100 L Remarks EXCHANTING. = ÷ = = Ξ Odors Sampler: 1 Real-Time Ambient Air Sampling Field Data Sheet Benzene (mdd) [Noort Dust Meter (mg/m³)
Make: MIE
Model: Wiwi Km
ID: 022667 9-13-01 Sampling Location: G.000 6.000 O.0706-500 0 550 0.00D O GOO Date: Make: **Professions**Model: **Wini (4r 2010**ID: 110-002141 0.0 Ö 0.0 o o Rogers Park Main ٥ 0 0.0 27194-4.07 10:00 am 1:00pm 2:00 Pm B:00sm 11:00 ann 9:00am Time Project #: Noon Project:





	guerney Whettorner	Remarks	EXCHAPTING SPECIFIC	-i.	17	,,	3	73	11		,			
a Sheet	Sampler: Chark	Odors							•					
-Time Ambient Air Sampling Field Data Sheet	1++	(ppm)	- Transi											
Real-Time Ambient Ai	Sampling Location: South	Dust Meter (mg/m³) Make: Mie Model: Min Chn ID: 02067	0.000	0.000	0.000	0.000	0.000	0.000	امري ، م			-		
	Rogers Park Main 27194-4,07	Make: CAESystems Model: Wini Pae 2000 ID: 1100-052141	6.0	0.0	00	0.0	0.0	0.0	0.0					
G	Project: Roge	Time	B:00sm	9:00 sm	10:00 Jun	11:00 am	Noon	1:00am	2:00Am	-				
-						•	· ·		-			• ·	•	

	Journay Con 70°	Remarks	exchanne,	TLEM WILL	,,	, ,	1)	. 1)	11				
a Sheet	Sampler: Court	Odors			1	1	. 1	- Insert	-			-	
r Sampling Field Data	24	(ppm)		THE PROPERTY OF THE PROPERTY O			-	Annual Control of the	**************************************			The second secon	
Real-Time Ambient Air Sampling Field Data Sheet	Sampling Location: EAST Date: 9-13-01	Dust Meter (mg/m³) Make: Mier Model: Minifam ID: O2067	0.000	0.000	O . SDD	0.000	0.000	0.000	O.00D	The state of the s	-		
	Rogers Park Main 27194-4,07	Make: Phy Model: Kim Kne 2000 ID: 10-002.44	0.0	0.0	Q O	0.0	0.0	0.0	0.0	Control of the Contro			
	Project: Rog Project #:		8:00 am	9'coam	10:00 sun	11:00 Zm	Noon	1:0Dan	Z:00gm				Principle of the Control of the Cont



	CONTINON WARTERE	Remarks	BREITH WASTE		"	, 14,	1	11	7				
Sheet	pler:	Odors		-		THE STREET WAS ASSESSED.	(And the second s		į			-
Sampling Field Date	1	, Benzene (ppm)	and the second s					-	-		**************************************		
Real-Time Ambient Air Sampling Field Data Sheet	Sampling Location: West Date: 9-13-01	Dust Meter (mg/m³) Make: Wie Model: Wini Emm ID: Diag 7	O.070	D:020	0.935	0.000	0.000	O.631D	C. Oxo .		***************************************		
X	Rogers Park Main 27194-4.07	PID Make: Ette Enstens Model: Mini Ette 2000 ID: 110-002141	000	20	0,0	0.0	0.0	99	0.0				
	Project: Rog Project #:		O'COST	I was control	10.00 am	1 COSMM	カロのブー	1:00 an	2:00gm				**

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ı		Swerner Westernary	Remarks	EXCAMPLIN S		No HCHWHY	EXCAVATING.	SPECIAL MARSTE	SKCATA-1200	SPECIFIC MASTE				
	a Sheet	Sampler: Chulching Weather:	Odors		/		-					149 1		
	Sampling Field Dat	ct#	, Benzene (ppm)	Barande								The fact of the state of the st		
	Real-Time Ambient Air Sampling Field Data Sheet	Sampling Location: Now of the Date:	Dust Meter (mg/m³) Make: Meter (mg/m³) Model: Mini Emm		0.000	0.000	ලා.ගු	(محي	0.000	J. 250. 0	7			
	-	Rogers Park Main 27194-4,07	Make: Rhe Serents Model: Uivi Khe Zoid ID: 110 -002141	0.0	o o	0.0	0.0	0.0	0.0	0.0				
		Project: Roge Project #:	Time	O:Osm	9:00am	(0:00am	1:00 am	NooN	ia Ban	Z:00pm				

	OLUCTURE MACHOSPERS	Remarks	EXCAURTING ASPHALT	No Actura	excharging specific where	EXCHACTING	SPECIAL WASTE		-
ta Sheet	pler:	Odors			-		The state of the s		
ir Sampling Field Da	Courth (-01	Benzene (ppm)							
Real-Time Ambient Air Sampling Field Data Sheet	Sampling Location: Date:	Dust Meter (mg/m³) Make: Mwe Model: Minikan ID: 02067	0.000	0.000	2000	O.ODO	٥٠٥٣٥ -		
	Rogers Park Main 27194-4.07	Make: Che Sistems Model: Miwildhe 2000 ID: 110-002141	0.0	0.0	000	0.0	80		
	Project: Rogg		9:00 am	10:00 2m	Noo N	1:00pm	7:00em		

	Swerner MacHOFPer	Remarks	**CAMPING ASOMA 1	No Actura	SCAWATING CATTA	No Acrum	SACKWATING SACCIAL WASTE	• •		
Sheet	Sampler: Weather:	Odors	***************************************	346HT CONT.	agrae a	***************************************		-		
r Sampling Field Data	C 1857	, Benzene (ppm)				Company of the Compan		Contract of the contract of th		
Real-Time Ambient Air Sampling Field Data Sheet	Sampling Location: E	Dust Meter (mg/m³) Make: Mie Model: Mini Km ID: 62067	0.000	0.000	0.00	0.00	0,000	O 2000		
8	Rogers Park Main 27194-4.07	PID Make: CARE Systems Model: Minitare 2m ID: 110-002.44	Q. Q	0 0	0.0	0.0	0,0	o ර		
	Project; Roge Project #:	•	01:0024	me00:0	11:00 am	7007	2:00m			

	Mustines Minatorness		EKCAM TING	No ACTIVITY	Exchanting,	No Activities	Security WASTE				
3	pler:		TOTAL TOTAL		e de la constante de la consta		-				,
r Sampling Field De	St.	(ppm)		1 1	**************************************				**************************************		
Real-Time Ambient Air Sampling Field Date Cy	Sampling Location: West	Dust Meter (mg/m³) Make: Mie Model: Miwi Kam ID: 02.067	0.0DC	0.000	0.000	0.000	0,000 0,000				
<u>H</u>	Rogers Park Main 27194-4.07	Make: PID Model: Mivi Pre 2000 ID: (10-002.4/	0.0	0.0	0.0	0.0	0.0	-			
	Project: Rog	Time	0.00 am	10:00sm	11:Dam	7,007	2:00m			-	The second secon

		DURTHEY MACHETER	Remarks	Certoying Balland	tos the man	Sam Sino Dens	Lahond S Pecins	DAN	N A A	* CAMATING SPAZIN	- CANGAGE				
	a Sheet	Sampler: Cour	Odors			f -	- Line			(· Ambienta			The state of the s	
F Committee Tie 1 17	a Sampung rield Dat	OKTIH	, Benzene (ppm)			DOWNER FRANTITE PANIE PINICE					-				
Real-Time Amblent Air Somulia me 11 2 2		Sampling Location: NORTH Date: 9-17-01	Dust Meter (mg/m³) Make: Mie Model: Minikm ID: 02067	0.000	0.000	MARY TRUE AND THANK	O ODDO			0,000	0.672				
	1-4	Rogers Park Main 27194-4.07	Make: Kye Systems Model: Nivi Me 2000 ID: 10-052141	٥٥	0.0	0.0	0.0	**************************************		0.0	0.0	-			
	-	Project #:	Time	B:Osm	1:00sm	(0:00m	11.00am	1,000	marco.	Z. 00 m	Sidem		**************************************		

BNILDING PEND LOMOING SPECIAL WASTE Hepmang Building File Demo. ACHOUSER EXCAVA-100 Remarks LOND! arkthen Odors Weather: Sampler:(Real-Time Ambient Air Sampling Field Data Sheet Benzene (ppm) -SWIH 9-17-0 Dust Meter (mg/m³)
Make: Mire
Model: Wini Fmm
ID: 02067 Sampling Location: 0,000 O COO 0.00 0000 O 0 :COD Or BOD Date: Make: Che Systems Model: Niw He 2010 1D: 10-002-141 0.0 0.0 0 Rogers Park Main Ö 27194-4.07 S S S 1.00m BioDam 9:00am 10:00m 11:00am S.ODom 2: Oben 787 Time Project #: Project:

		LOWON THEHERED	RAN	Remarks		PREPARATION GALLESIANS	106 Jano.	(-	JAILOURY DENO	STORES STRIPLY WAS VILLE	2	25	いるとうころをい			-		
	ta Sheet	Sampler: Cone		Odors									1	• (_
7 Sampling W. 11 D	ı Sampung Meld Da	AST		Benzene (ppm)				Annuarie					**************************************	1	***************************************			
Real-Time Ambient Air Samuling Will B		Sampling Location: E		Dust Meter (mg/m³) Make: Wir Rw Model: Wini Rw ID: D2067	1	800	000.0	0.000) MY	00.0			2000	0.000				
		Rogers Park Main 27194-4.07	ĺ	Make: AFFSUKTEMS Model: Minj Phr. 2000 ID: 110-002141		0,0	0.0	0.0	0.0		(0.0		0,0		***************************************		
		Project #;	Time	OTT.	3	() () () () () () () () () () () () () (1:00 sum	10:00 sun	11:00 sm	200	1: Wan	2 organ	V. C. B. 22					

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Temp PREMIUM BUILDING BACING MASTE auran MACHDERER Remarks CLEMPY = Odors Weather: Sampler: Real-Time Ambient Air Sampling Field Data Sheet Benzene (mdd) Sampling Location: Wes7 4 Dust Mefer (mg/m³)
Make: MiF
Model: WiniF 0.000 10 0.000 0.000 0.000 0.000 ID: 62067 0.000 Date: Make: Che Fulstens
Model: Mini Che Zono
ID: 110-00214 0.0 ٥ ٥ 0 0 0.0 00 Rogers Park Main 27194-4.07 11:00 sun B. Dam 1:00pm 9:00 arm 10:00 zmm 2:00pm 3:0pm 7000 Time Project #: Project:



,		DAMETHEN 10 Mettogrape	Remarks	Lathornag DARRIES	Smethares Residence		V .		LATINITY CONTROLLER	N. N. Jerin	DIN DI NATA				-
	a Sheet	Sampler: Convertue (Umethor 70°	Odors .			1	-							,	
	r Sampling Field Dat	Lorett	, Benzene (ppm)		**************************************	-									
	Real-Time Ambient Air Sampling Field Data Sheet	Sampling Location: Nate: 9-18-01	Dust Meter (mg/m³) Make: Mte Model: Wiwjpm ID: C2067	0.000	O. 50t)	0.000	0.000	0.000	0.000	Ø.97D					
	H	Rogers Park Main 27194-4.07	Make: Ph. Make: Mecali Minister 2000 D: 110-002141	0.0	0.0	0.0	0.0	0.0	0.0	0.0		-	-		
		Project: Rog Project #:	Time	0.00 gay	me mo	(0:C) 2m	1 - 00 m	787	.00 ga	1.00pm					# \$444

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	Muchan Whetham	Remi	LOADING (SNICONG)	11		No Merican	LOADING SACITY	NO ACTIVELY			
Sheet	pler:	756, Odors		· · · · · · · · · · · · · · · · · · ·				The second secon		***************************************	
r Sampling Field Data	Courth	, Benzene (ppm)		hande		1					
Real-Time Ambient Air Sampling Field Data Sheet	Sampling Location: Date: 9-18-01	Dust Meter (mg/m³) Make: MIE Model: MiniEAM ID: Ozbe 7	C.000.0	J. 30	Ď.00€	0.00	0.90	0000			
H	Rogers Park Main 27194-4.07	Tems TF 2000	0.0	0.0	0.0	0.0	0.0	0.0		-	
	Project: Rog		0:00 am	10:00 am	- DOAM	1.00 mg	wann.	war.		-	

ı		DOWNER WALTERPORE	Reinarks	LOMOING BUILDING	FEMANDE CHARLE			A CV	\sim	V6 -	NO NCTIVITY			
	Sheet	Sampler: Outer	Odors	1		1								
	r Sampling Field Data	37	, Benzene (ppm)	(
	Real-Time Ambient Air Sampling Field Data Sheet	Sampling Location: FAST Date: 9-18-01	Dust Meter (mg/m³) Make: Wife Model: Wisi km ID: 02067	6.000	0.000	D.000	O.00D	0.000	0.000	O-000				
		Rogers Park Main 27194-4.07	Make: He Systems Model: Nivi Ene 2000 ID: 10-002441	0.0	0.0	0.0	0.0	0.0	0.0	0.0				
		Project: Rog Project #:	Time	00.00 mg	7:00am	D:00	COam	7007	1:00m	7:00m		**************************************		

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			<u>رم لا</u>	Ĭ .	. ,			 -						,
	DAVETNEY WARTER	Remarks	LONOUNG PANCONG	, 1		N A A	27.12	No Attitute						
a Sheet	pler:	Odors	(-									
ir Sampling Field Dat	West	Benzene (ppm)	1				-							
Real-Time Ambient Air Sampling Field Data Sheet	Sampling Location: W	Dust Meter (mg/m³) Make: Mile Model: Wini Cam ID: O2007	0.000	0.00C	0.00	0.000	0.200	(D.20)-						
	Rogers Park Main 27194-4.07	Make: Che Systems Model: Wini he 200 ID: 110-002141	000	0.0	00	00	0.0	0.0						
	Project: Rog		0:00 mm	D:DDam	(Dam	7007	Walls of	1,00gm			-		•	-

. ,		MACHINES	Remarks	excenerine, sheare.	W#876	(S)	ACAMAINS STRIKE	No American	DAY BUTTER	NEW STAN)				
	Sheet	Sampler: On Chr.	Odors	The same of the sa	,	-	-	,		questions ,		The state of the s			
	r Sampling Field Data	DOCTH-	, Benzene (ppm)	The state of the s	Control of the Contro				•	T Complete and the second seco				1	
Real Time Amhion 4	Action All Data Sheet	Sampling Location: Date: 9-19-01	Dust Meter (mg/m³) Make: Wie Model: Win Emr		0.000	0.000	0.000	(R) (2)	C. CTD						
	**************************************	Rogers Park Main 27194-4.07	Make: Pro Systems Model: Wini Life 2000 ID: \\ \text{10-001.4}	Ó	0.0	0.0	0.0	0.0	0.0						
		Project: Rogg	Time	9:00sm	9:00 am	10:00am	11:00 am	N907	-000 r	2.00gm					

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EACK FILING EXCHAPTING SPEUM WATE EXCHANTING SPECIAL WASTE Construct Minerhales. NO APPINTED Brekhund Reinarks Odors Weather; Sampler: 1 Real-Time Ambient Air Sampling Field Data Sheet Benzene (ppm) ٠ ١ サイをへ 10-6-6 Make: MIE Model: MiniCm ID: 02067 Dust Meter (mg/m³) Sampling Location 0,00 O GOOD 0000 G.000 0.000 0.500 Date: Make: Hr Systems Model: Miniche 220 ID: 110-002/41 Q 9 Q Q 0 0 ó Rogers Park Main 27194-4.07 11:00 am 1:00am 8:00sm O:00am 9:00 am 2:00m Time NON NON Project #; Project:

The state of the s

~	ANGENER MACHETER	Remarks	SPECIAL WASTE	RACK F111111	BCHARING	No Artist	BACKAUNS	KAN,			
Sheet	pler:	Odors				-	-	Temperature of the second seco			-
Sampling Field Date	7	, Benzene (ppm)									
Real-Time Ambient Air Sampling Field Data Sheet	Sampling Location: EAST Date: 9-9-0	Dust Meter (mg/m³) Make: Mie Model: Wini Ffm ID: O2067	0.000	O.000	0.00	Q.001	0.000				
H	Rogers Park Main 27194-4.07	Make: CHF ENSTEINS Model: Wink Chr 2000 ID: 11000141	0 0	0.0	0.0	0.0	0:0				***************************************
	Project: Roge Project #:		9:00em	10:00am	T:Q Daw	Nicon	2:00m				

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	Johnson Minerians	Remarks	EXCHATING SHEAM			CYCENTURY COLONS	NO No.	Day John Tu	DAN LINE	7/17			
Sheet	pler:	Sg				(
r Sampling Field Data		, Benzene (ppm)	***************************************	Chapterine Communication of th			· ·	· ·					
Real-Time Ambient Air Sampling Field Data Sheet	Sampling Location: West Date: 9-19-0	Dust Meter (mg/m³) Make: ME Model: Mini Ram ID: Dabe 7	D. 500	O-000	0.000	0.000	0.000	0.000					
	Rogers Park Main 27194-4.07	Make: Are Briters, Model: Wini kme 2000	වුර	0.0	0.0	0,0	Ö	0.0					
	Project; Roge		D'OUAM	4:00sm	10:00am	11:00 am	2007	1:00gm	2:00 mg				

CANATO SPECIAL
WASTE SPECIAL
WASTE Metto Prop Remarks ٦ こ ٦ avener Weather: Odors Sampler: Real-Time Ambient Air Sampling Field Data Sheet Benzene (ppm) (BUTH 9-20-01 Dust Meter (mg/m³)
Make: MiE
Model: Winikm Sampling Location: 0.000 0.000 D: Ozbet 0.000 0.000 0.00 (J. 600) 0.000 Date: Make: 4 FD Make: 4 Social Mini 4 E 2000 ID: 1/0-002/4/ 0.0 0.0 O,O Ó 0 Ģ 00 Rogers Park Main 27194-4.07 9:60 Jun B:00am 11:0Dam O'D'Dam 2:00m (20)m Time Noon Project #; Project:

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	nemen MHEHEREL	Remarks	CAON-G SPELINX	18	अन्याम प्रमध्य	7	-		11			
Sheet	Sampler: Couler Weather: Sunany	Odors		· · · · · · · · · · · · · · · · · · ·	Stickt con				1.			
r Sampling Field Data	7.487	Benzene (ppm)		PRINCIPLE OF THE PRINCI	,			-	The state of the s		**************************************	
Real-Time Ambient Air Sampling Field Data Sheet	Sampling Location: EA Date: 9-20-01	Dust Meter (mg/m³) Make: Wife Model: Wiri Kmm ID: Parker	0.020	0.000	0-000	0.000.0	0-900	0.000	QQ,0.			
	Rogers Park Main 27194-4,07	Make: Chemistrons Model: Min Inc. 200	0,0	0.0	0.0	O.O	00	0.0	0.0			
	Project: Rog	Time	B.Wam	gions.	(D:002/m	14 1:00 am	Noon	magn:	2:00pm			

W. San

	Princy MacHaston	and to	Remarks		CARIES SALIS	2827 =	1)	-				And the second s		The state of the s
Sheet	Sampler: Weather:)	Odors			ATTOM			(
Real-Time Ambient Air Sampling Field Data Sheet	254		, Benzene (ppm)				1		(
leal-Time Ambient Ai	Sampling Location: W. Date: 9-20-0		Dust Meter (mg/m³) Make: M/F Model: Mini Phr ID: 02067	000	0.000	0.00	0.000	O.odb	0.58J	(C.col) -	-			
,	Rogers Park Main 27194-4.07	-	Make: HE Dygraws Model: Min 1/4= 200 1D: 1/0-002/4/	00	0.0	0.0	0.0	0.0	0.0	0.0				
	Project #:	Time		0:00m	G': Osm	10:00 Jun	(1:0Dam	Violy I	(.00pm	7.00pm				

	Swemen Whelpage	- Language (c	Remarks	Kenymeting thest	OF TO CONTRAINMANION	CACHALIMO SPECIFIC	MASTE		1)	,		A CAMILLO (1997)		
a Sheet	pler:		Odors	SLEFT OM			**************************************	1				700		
r Sampling Field Dat	WATE .		, Benzene (ppm)	- Action	(,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	BATTES /		· · · · · · · · · · · · · · · · · · ·						
Real-Time Ambient Air Sampling Field Data Sheet	Sampling Location: Date: 9-21-01		Dust Meter (mg/m³) Make: MIF Model: MimEmm 20 ID: Office 7	0.00	0.00	0.00.0	نحتى ن	0.00	0.000	O. CTT)-			-	
	Rogers Park Main 27194-4.07		Make: Lronstems Model: Wim Energy ID: 10 multi	0.0	0.0	0.0	0.0	0.0	0.0	0.0				
	Project: Rog Project #:	70,000	aming C	5.00cm	4. William	me00:01	11:00 am	Treon!	(O)	L'apm				

	V	Wetres Whethortere		Remarks	CKCHYM-1106 HEGY	マー	Charling Seered	722))	, , ,		2				
	ta Sheet	Sampler: Child		Odors					(***************************************		
	ir Sampling Field Da	Jun 14		. Benzene (ppm)		ATTENDED (patricular in the second secon									
	Keal-Time Amblent Air Sampling Field Data Sheet	Sampling Location: Date: 9-21-01	Diret Mater	Make: WIF Model: UNINFAM	0.00	ae0.0	(19)	CU20, C	7.70	0;030 7.4. ~	0.00	0000				
***		Rogers Park Main 27194-4.07	0 PID	Make: Ale Sugrans Model: Ulivi Lar Zav ID: 10-052141	0.0	0.0	0.0	0.0	00	0.0	0.0	The second secon			A Section 1. The section of the sect	
	`}	Project #:	Time		O. OD June	7: Dam	10:00 days	11:00 am	Now	1:00am	2:00m					

-					2002						·			
		rang ly metroson	Remarks	Exchines theor	With 1.12 Contrained	Cherting speak	VARTE))))		N AND AND AND AND AND AND AND AND AND AN			
	a Sheet	Sampler: (dage)	Odors			Sug Hr Can			•	a de la constante de la consta				
	mbient Air Sampling Field Data Sheet	487	Benzene (ppm)	general Property Co.										
	Real-Time Ambient Ai	Sampling Location: £ Date: 9-21-01	Dust Meter (mg/m³) Make: Mm Model: Mm Raya ID: LDM 7	6.000	0.000	0.000	O.D.O	0,000	0.000	D.000 -				
	1	Rogers Park <u>Main</u> 27194-4.07	Make: Hip Organs Model: Win Che 200 ID: 110-0014	0.0	0.0	0.0	0.0	0.0	0.0	0.0		-		
		Project: Rop Project #:	Time	Silvan O	1.Wan	10:00 m	11:00am	Manny (2,7)	1.00m	1.00pm				

EXCHAMING SPORTE JOHN POSTURTION Remarks ٠ 2 1 Weather: Odors Sampler: Real-Time Ambient Ajr Sampling Field Data Sheet Benzene (mdd) Make: Wine Model: Milivi Lon Sampling Location; W Dust Mejer (mg/m³) 0.000 0.00 0000 CRO-0 0.000 0.000 0,000 hrag of 00 00 0.0 1.0 0 Rogers Park Main 27194-4.07 Make: 🔏 Model: 8:00 dam 1:00 aur 9: William 10:00 ain idan. Time Project #: Trap) Project:



COURTNEY MARHERA WATCHER SPECIAL Remarks WARTE Pool = Ξ LOWBY Odors Weather: Sampler: Real-Time Ambient Air Sampling Field Data Sheet ł Benzene (ppm) NOPTH 9-24-01 Dust Meter (mg/m³)
Make: MIE
Model: Mini Arm
ID: DZ067 Sampling Location; 0.000 0.000 0.000 0.000 0.000 0.000 0.0mg Date: Make: PID Make: Model: Mini Lre Zoro ID: 110-002.41 0 0.0 0 0.0 Rogers Park Main 0.0 0,0 27194-4.07 8:00 sm 9:00am 10:00 am Bom 2:00 pm 1:00 am Time Nool Project #; Project:



-	-	Mr. Thosy Westospes	100 PS	Remarks	-	LO MONE COM	WASTE	"								**************************************	-	- F		
· .	ta Sheet	pler:	1	Odors	•			DUG# T CORTER						SLIGHT SET						-
	l-Time Ambient Air Sampling Field Data Sheet	NATH-		Benzene (ppm)	ē					•	((W		
	Real-Time Ambient Ai	Sampling Location: Sout H. Date: 9-24-01		Make; MIF Model: Model: Minj Prov	L. COOK 1 02067	0.000	6.0	(A). ()		0.000	0.000		000:0	O. 000	,					
		Rogers Park Main 27194-4.07		Make: Kne Systems Model: Miwi Kne Zoo		0.0	0.0	0,0	00	5	0.0	0.0	(5						
		Project: Rog Project #:	Time		O.O.	10.00 sm	7.00 am	10:00 sm	11:00 sm	40.7	2 100 7	1.0 Jan	7.00m							

LOMOING BY FAITH. METWEN MARHETER Gon 56º Remarks = <u>~</u> = = "Louren Odors Weather: Sampler; Real-Time Ambient Air Sampling Field Data Sheet Benzene (ppm) Sampling Location: CA Dust Meter (mg/m³)
Make: Mie (mg/m³)
Model: Min! Emm
ID: 22367 0.00 0,000 000.0 0.000 0.000 0.0 0.000 000 0.0 0.0 0.0 Q 00 Rogers Park Main 27194-4.07 Make: K Model: U 8:00 sm (DiDDam 9:00 am WEDO: 1:00 an 2:00 pm Time 700 Project #; Project:



		DANGTHEN WING HEBER		LOADING SPECUM	MASTE	13				5	A STATE OF THE STA		
	Sheet	Sampler: Courties		-				1		, proposed the second s			
	r Sampling Field Data	32-6	, Benzene (ppm)	-team			•			,			
Ass Mirror A.	Acar-1 nue Ambient Air Sampling Field Data Sheet	Sampling Location: Wed-	Dust Meter (mg/m³) Make: Mire Model: Winkfan	(C. 550	0.000	0.00	0.000	0.000	0.00	0,000			
A	-	Rogers Park <u>Main</u> 27194-4.07	Make: PID7 Model: Wini CHE 2000 ID: 110-002441	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
		Project #;	Time	O:Doam	7.00 am	(0:00 sm	me00-11	7007	1.00m	1. Com			

	Conemen MARHORER	Remarks	Cotto de Social	EXCHATING TO	= =	h	<i>h</i>					-
a Sheet	pler: ither;	Odors	(***************************************						
r Sampling Field Date	10R-71L	Benzene (ppm)			1			1	and the second s			
Real-Time Ambient Air Sampling Field Data Sheet	Sampling Location: Nat	Dust Meter (mg/m³). Make: MiF Model: Miwi Kmw ID: 02067	0.000	0.00.0	0.000	0.00.0	0.000	(D.an) ==	CIDS: 0			
	Rogers Park Main 27194-4.07	Make: RESISTEMS Model: Mini Resor	0.0	0.0	0.0	0.0	2.0	O O	0.0			
-	Project: Rog		0.00am 0:00am	10:00 eum	11:00 am.	1:002.) One	7.00 X	wa co			191 - The state of the state of

No Achutu
Exchutumas stam LOHOWE SHOUTH Col Sumy 550 JOHOTHAN MARKHUSTER Remarks Ξ -_ Weather: Odors Sampler: 1 (Real-Time Ambient Air Sampling Field Data Sheet Benzene (ppm) I Į (1 Sampling Location: Sacration Date: 9-25-9 Dust Meter (mg/m³)
Make: MIE
Model: Min Ehm
ID: 02007 0,000 0000 0.00 0.00 0.000 0000 O. 000 0.000 Make: Are Sustans Model: Mini Lyreson ID: 10-00741 0.C 0.0 0 \mathcal{C} 0.0 0.0 0 Rogers Park Main 0.0 27194-4.07 Ü. 9:00 sm G.DDam 10:00am (1:00) am 2.00pm 1:00m 5:00pm Time V MOUNT Project #: Project;



		anethen Mhataerese	Remarks	COMOING ORZIA	/ O /	なんとい	(/ // // // // // // // // // // // // /	"	77						
	Sheet	pler: (Odors		appendigue		•	-		-	**************************************				
	l-Time Ambient Air Sampling Field Data Sheet		, Benzene (ppm)	6				Appended to the second	•	-					-
The state of the s	Real-Time Ambient Ab	Sampling Location: LAS7 Date: 9-25-01	Dust Meter (mg/m³) Make: WIE Model: Min Em ID: 02067	0.000	0.620	6.002	0.000	0.00	0.800	O.000	0.000				
	H	Rogers Park Main 27194-4.07	Make: Checonstens Model: MiniChecons ID: 110-08-441	0.0	0.0	25	0.0	0.0	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	0.0	0.0	-			
		Project: Rog	Time	0.00m	10.00 m	11:00 m	Noon	(10)pm		1.00m	2.00 pm	-	-		

	MUCHURA 1 MAHORPER	Remarks	LAMONG SPEATH	ALI WHAST7E	SCHUTTURE TO STATE OF THE SCHOOL STATE OF THE	STERLAL WASTE	" " " " " " " " " " " " " " " " " " " "	//		7			
Real-Time Amblent Air Sampling Field Data Sheet	pler:	Odors	-	1			+	(A STATE OF THE PARTY OF THE PAR		***************************************	
	152-1	, Benzene (ppm)				(-	The same of the sa			
	Sampling Location: WE	Dust Meter (mg/m³) Make: ME Model: Miniffm ID: 02067	0.000	2 500	0.000	0.000	0.020	0.000	O . 000	0.000			
	Rogers Park Main 27194-4.07	Make: PID Make: Make: Min Lite 2000 ID: Ilb DOLL!	0.0	0.0	0.0	0.0	0,0	0,0	0.0	0.0	-		
	Project: Roge Project#:	Time	B:00am	7:00am	10:00am	11. Day	Kloorl	md(0;)	2:0pm	S. Olem	The second secon		

	The state of the s	Mother MACHERER	1 1 23	EXCHURTING SPECIFIC	MOUNTS BUILDING	DE1811/S	11	₩		EXCAMPING SPECIAL	WASTE.			
	a Sheet	Sampler: Consert	Odors		-									
	Real-Time Ambient Air Sampling Field Data Sheet	Novert	Benzene (ppm)				\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \		Exemples of the control of the contr		or the state of th			
eal-Time Ambient Air	Keal-Time Ambient Ai	Sampling Location: N Date: 9-26-01	Dust Meter (mg/m³) Make: Mif Model: Mini Rm ID: 02067	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000			***************************************
		Rogers Park Main 27194-4.07	Make: HE Systems Model: Mini Hre 200 ID: 110-0014	٥٥	0.0	0.0	0.0	0.0	0.0	0.0	0.0			To the second se
		Project: Rog		0:00 Jun	(1.00am	10:00am	11:00 am	2007		2:00m	10 Cl			



WOUNG BULDING EXCAMPTING SAZIAZ EXCHAPTIBLE SOFTER EDL, OLORGHOT SSO Reinarks WASTR **=** [z, _ Weather; Odors Sampler: 1 Real-Time Ambient Air Sampling Field Data Sheet Benzene (ppm) Sampling Location: San7#
Date: 9-20-0/ Dust Meter (mg/m³)
Make: Mile
Model: Winifam
ID: ODOL TOOL 0.00 0.000 0.000 0.0m 0.600 0 000 0.000 0.000 Make: Hr Dry Model: Min! me Dasp 0.0 0.0 0.0 0,0 0.0 0 0:0 9 Rogers Park Main 27194-4.07 B. Warn 10:00m 9:00sm 1.00m 11:00 sm 2:00pm Time 13:00 pm Mel Project #; Project;





			Michol Whethere	748 DAST 550	Rémarks	-	CXCH-JF-170KSR-17F	WATE WILL CAR	PERMIS			1)	,)	SCHWIM SPECIFI	WASTE				
	a Sheet		Weather:)	Odors						1		and the state of t	(Street and the street		
	: Sampling Field Dat	TAST	10		Benzene (ppm)						· · · · · · · · · · · · · · · · · · ·	•				**************************************		1-4-1	
aol Mimo 4 min		Sampling Location: E	1.71		Dust Mejer (mg/m³) Make: Min form	10: 4600	0.000	0,000	G.ODD.		0.00	0.000	0.000	_ OT&.O	O .000				
. 2		Rogers Park Main	27194-4,07	***	Make: Mrs. Stong Model: Mini Ing 2000 ID: 110-002141		0.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0				
	.+	.	110,660 #:	Time		8	O.Cam	7.000	(D:Orang	11:003.11	100	1.000	W COM	7.00m	500pm	-			

,		enerney Martinesen	00 198	Remarks	EXCEMPTING, SPETITE	1	DEBRIK	1)		1)	W CANATUR SOTIET	WASTE	-				-		
-	a Sheet	Sampler: Weather:		Odors		1	-			••••						-			
	"Lime Ambient Air Sampling Field Data Sheet	West		, Benzene (ppm)		- Company of the Comp						(manufacture)		**************************************	**************************************				
Dool Til	xear-1 me Ambient Ai	Sampling Location: WEDate:	Dust Meter (majm3)	Make: WIF Model: Mind KANAL ID: 02067	0.600	0.820	0.000	CITIO, A) OTO	0.00	0.00	0.000			g language and the state of the			The state of the s	
	.	Rogers Park Main 27194-4.07		57em 8 44-2000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0							
	.]	Project #:	Time		H.ODSM	9:00am	Incom	11:00 Jun	Noon	.idam	2:00gm	3:00m							

		Microsof Hattories	emark	EXCAURTING	Specin whste		1		1)		SOUTH TO THE STATE OF THE STATE	DOMETING SOCIETY	Where	***************************************		
	a Sheet	pler:	Odors		Sugar			· · · · · · · · · · · · · · · · · · ·				- Addressed				
	" Sampling Field Dat	aeth -01	Benzene (ppm)			-	(, , , , , , , , , , , , , , , , , , ,	ſ	•			**************************************			
	Real-Time Ambient Air Sampling Field Data Sheet	Sampling Location: Nac- Date: 9-27-01	Dust Meter (mg/m³) Make: MIE Model: Mini KAnn ID: 0206-7	0.00	0.000	0.000	0.000	0.000	0.000	D, 200 -	0,000	2000	0.000			
		Rogers Park Main 27194-4.07	Make: Chebystews Model: Winikazab ID: 10-00441	0.0	0.0	0.0	0.0	0.0	0.0	0.0	Q.0	00	0,0			
And the state of t	,	Project: Rogg	Time	0.00m	O'Wam	0:20m	1.00am	10.00cm	11.00 cm	7.00V	1.000	1.00m	1:30pm			

		er: Cool, Showy 65°	Remarl	- EXCAMATING	J. Spedimmere	11	" "				NO RETINITY	TO FRANCE CONTRACTOR	WARTE		
	Real-Time Ambient Air Sampling Field Data Sheet	Sampler:	(ppm)		1 Sust	/									
. \$	Real-Time Ambient Air	Sampling Location: San744 Date: 9-27-01	Make: Meter (mg/m³) Model: Mini RAm ID: D2067	6.00	0:00	0.000	0.00	0.000	6.000	0.000 -	G.00.0	0.00	0.000		
		Rogers Park Main 27194-4.07	Make: HESISTEMS Model: Mini Mezzos ID: 110-202141	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0:0		
÷	·	Project: Ro	1		20 Dans	0.00 m	7.0020	10:00an	11:002	NooN	:00an	2:00m	0:30m	4	

-	The state of the s	mer MARHARDEN	Remarks	EXCAMPING.	SAFELAZIMISTE		11	1			Kennoning Concerned	CKCHATING SPEIR	328nn		
	a Sheet	Sampler: Coc Sampler:	Odors		SUGHT	Luk-	1			-					
	Sampling Field Data	75	, Benzene (ppm)	-					-						
· Lucia A	Keal-Time Ambient Air Sampling Field Data Sheet	Sampling Location: EAST Date: 9-27-01	Dust Meter (mg/m³) Make: Mie Model: Mini Lam ID: 02067	0.00	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000		
	X	Rogers Park Main 27194-4.07	Make: LAF Syftens Model: Minishezon ID: 110-00141	0.0	00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
		Project: Roge Project #:	Time	1. Houng	0. Com	Di Dum	7-000m	10:002m	-wo00:11	V(00)	100m	7:20 On	1.00 m	* `	

-	Cool Shimy 650	Rems	TING	Speak waste	-	11.	" " " " " " " " " " " " " " " " " " " "			C Nahahar	Descript Sold	11		
a Sheet	Sampler: Weather;	Odors	-(Ster	1	1	1		1		1			
l-Time Ambient Air Sampling Field Data Sheet	2/2	Benzene (ppm)	· · · · · · · · · · · · · · · · · · ·				Amaza							
 Keal-Time Ambient Ai	Sampling Location: Wes	Dust Mater (mg/m³) Make: Medel: Minigan. ID: 22067	0.000	0.000	0.000	0.000	0.00	0.000	- CLOO: 1)	0,000	0.00	6.000		gelfelouet
	Rogers Park Main 27194-4.07	Make: HE TASTEM Model: MMINTAL 26TO ID: 110-00141	0.0	0.0	00	0.0	0.0	0.0	0.0	0.0	0,0	0.0		
	Project: Roge Project #:	Time	1. Fram	O. Odna	0 20m	1.00 Am	10.00am	WC001	Noot:	1.000	1.00mm	1. topm		

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	Sampler: Seolge Picht Weather: Louis 58-670	Remarks		LESC. SPECIAL	Solot AL WATE	HOLOR CKC.	EXCHURTIME LEHAMA	SPECIAL WASTE	CONDIN 6		À			
mpling Field Data Sheet	7+ Sampler: Secure Neather: Locus	Benzene Odors (ppm)												
Real-Time Ambient Air Sampling Field Data Sheet	Sampling Location: Naver# Date: 9-28-0	Make: Mile Model: Mini RAM ID: 02067	0.00	0,00	0.00	0.00	0.00	0.00	0.00				-	
	Rogers Park Main 27194-4.07	Make: Chesystems Model: Mini Mr 2000 ID: 110-002141	0.0	00	0.00	0,0	PM 0.00	pm 0,00	PM 0.0			-		
	Project: Project #:	Time	7:45	0.10	9:30	00:11	1:00 pm	2:00 pm	3:00 PM	3:45				-

. ~		Cloudy 58-69"	Remarks	EXCHUTSING .	WHSTE SOUTH	CRUMING SITE	4149MC	GALDING .	SKWVINGE SKENOK HAZ	WASTE, TRUCK	CORON	O X 4 / h				
	a Sheet	Sampler: Clouby	Odors		,											-
	r Sampling Field Dat	Savet 74	, Benzene (ppm)													
	Real-Time Ambient Air Sampling Field Data Sheet	Sampling Location: Sampling Location: Sampling 1928-01	Dust Meler (mg/m³) Make; Miff Model: Wini fran ID: O2267	0.00	0,00	0.00	0.00	0.00	0.00	0.00	000				A CONTRACTOR OF THE PARTY OF TH	
*		Rogers Park Main 27194-4.07	Make: LAE Sus TEMS Model: Miw! Energo ID: 10-002141	000	0.0	00	90	0.0	0.0	0.0	0.0					
		Project: Roge	Time	7:45	6.13 5.13	4:30	11:00	Md 00:1	2:00 PM	2:00 PM	3:45 PM			-		

}		1 1.	20-612	Remarks		LOMON SECIN	217E COMDING	GRADING	CAMPING!	EXCHANTING C SPECIFIC WART	The Company		- Not many facility of the control o			
	a Sheet	Sampler: Cod	7 Cautol:	Odors			1									
S. C. Marson II.	Sampung Field Dat	187		Benzene (ppm)					***************************************					9		
Real-Time Amhient At.	Sampling Field Data Sheet	Sampling Location: EAST Date: 9-28-0		Make: Wir Am. Model: Min! Am. ID: 02067	000	8 6	000	0.00	000	0.00	0,000	0.00				
		<u>Kogers Park Main</u> 27194-4.07		Make: Lycsystems Model: Will Hot Low ID: 110-0014	0.0	0.0	00	0.0	90	0:0	00	0:0				
	1	Project #:	77		7.45	8:13	9:30	00:11	1:00	2:00	9:00	3.45			 and the state of t	400

	,	sound se-670	Remarks	EXCENTER TITLE	SURPON S	COMPLE STE	GRADIIX 6	Nok WAZ. WASTE	THICKESTALL			ý				
	a Sheet	Sampler: Count	Odors											•		
	: Sampling Field Dat	7	, Benzene (ppm)											14,55		
Sool Tries.	Treat - Linne Ambient Air Sampling Field Data Sheet	Sampling Location; Mg	Dust Mejer (mg/m³) Make: Wife Model: William	0.00	0.00	0.00	0.00	0,00	200	1. 60.0	99					
() () () () () () () () () ()		Rogers Park Main 27194-4.07	Make: Che Disterns Model: Mini the 2000 ID: 110-002/41	0.0	0.0	00	0.0	0.0	0.0	0.0	00					
	1	Project: Roe Project#:		7:45	8:0	9:30	11:00	00:/	2:00	3:00	3:45	. ·	-		•	

Rogers Park Main Real Time Instrument Calibration Log
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Burns & McDonnell	and Comments													
hapla-011	Calibration Notes and Comments							NET Prosection	Deliver Day of N					
MiniRae 2000 Rae Systems, Inc 110-002447 20-75-0	Meter Reading	0.0 pon	10.0pm	0.0 gam	0.000rg	2000	2000			\$ 0.00 h	0.0pgn	dagn	O.Coon	0.0 gan
MiniRa Rae S 110-00	Zero Check	(m))] [7	7	7	H	}	7	7		7	
Instrument: Manufacturer: _ Serial No.:	STD Conc.	medas)	medao	The factor	Mes Sp	100 apm	100you	telem		100ppm	[Walnu	99.9 gan	100 grin	(Digan
	Gas STD (Name)	/ Isobutylene	Isobutylene	lsobutylene	Isobutylene	Isobutylene	Isobutylene	Isobutylene	Isobutylene	Isobutylene	isobutylene lsobutylene	Sobutylene	leohutudono	ellerämana
Project: Rogers Park Main Project #: 27194-4.07	Weather Conditions	Harris Pasawall Isobutylene	Hamo Hory	Home Hory	CANO, CLANDO,		Found,	Croney,	Tot owns	- 1	10 CH2	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	900	دامر طکم
Project:_E Project #:	Time	7:15am	1.50mm	6:55am	7:10 am	7:00m	7:15	7:00°m	7:00 m	7.08an		150am	4	6:55°
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MiniRae 2000	Rae Systems, Inc	110-002141
Instrument:	Manufacturer:	Serial No.:
Project: Rogers Park Main	Project #; 27194-4.07	

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SINCE 1898	Calibration Notes and Comments														
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	STD Conc. Zero (ppm or %)	Warn 1	Doon (Dann 7	Dagan	Dag. 7	IODaa	80	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Warm 1	(Bam L	-7 weeco)	(appen	D mon D	Longery L
	Gas STD ST (Name) (pp	sobutylene 0	sobutylene		sobutylene 10	Isobutylene	Isobutylene	Isobutylene	Isobutylene	Isobutylene 0					Isobutylene
	Weather	150 Sherry	ash 19	Mico 74°	WILLS COOL	Snamy	Sum 300	150	Surmy 300	ast line	Swag 820	Humo 80°	Clemen, 144100 Hamis 750	B. Ta	80°3
	Time	me00:L	7:00sm	7:15am	7:00m	7:15am	7:30	7:50,	7:050	7:53	7:00 Jun	7:05gm	7woam	7:(Osm	7:20sm
	Date	8/8	6/8	9/10	%/IS	8/14	8/15	£	917	8/20	30	12/2	- 1	520	30

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MiniRae 2000	Rae Systems, Inc	110-002141	
Instrument:	Manufacturer:	Serial No.:	
Project: Rogers Park Main	Project #: 27194-4.07		

			-		1		
Date	Time	Weather Conditions	Gas STD (Name)	STD Conc. (ppm or %)	Zero Check	Meter Reading	Calibration Notes and Comments
878	7:45am	Summy	Isobutylene	100 Par	7	0.0	
	7:45am	Sminny	Isobutylene	10T) gan]	0.Dags	
	meg5;9	Similar	Isobutylene		7	0.0 Gan	
10/K	7:10pm	8/3/60 7:10pm Seenny 200	Isobutylene	10101	7	0.1 pm	antity to the triple of readings in
Jog	7:00 am	Summ	Isobutylene	COGAM	7	6.0 Gan	
1,19 16/b)	weQo:L	St Jamany 120	Isobutylene	(C) gam	7	0 0 cm	
٠.		They county	Isobutylene	[00 pow)	0.822	
7	7:30am	(Arestyleansy Sec Hope	sobutylene.	Boam	1	0.00m	
2	7:30 am	Summy 750	Isobutylene	100,000	7	0.000	
	7: 25 am	7: 25cm Surmy BOD	Isobutylene	1000m	7	0.099	
7	7:250mm	Snowy Bo	Isobutylene	[00 gan	7	O.099M	
W	7:30am	Summy To	sobutylene	100 m		0.0	
/d	7.50am	Earling 650	Isobutylene	CO		0.02m	
7	6: your	DANAMY 700	Isobutylene	[Bran	7	0.0	

Project: Rogers Park Main Instrument: Minife Project #: 27194-4.07 Manufacturer: Rae

MiniRae 2000

Manufacturer: Rae Systems, Inc. Serial No.: 110-002141

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868 32NS	Calibration Notes and Comments														
	Meter Reading	(a) 10 11 dd		a	٥	٥	۵	0	0	Q					The state of the s
	Zero Check	7	7	7	7	7]	7	7						
	STD Conc. (ppm or %)	180	logam	marchan)	ODGBM	100 ppm	100 com	10cpan	100 Gan	100 pan					Pilet.
	Gas STD (Name)	Isobutylene	Isobutylene	Isobutylene	Isobutylene	Isobutylene	Isobutylene	Isobutylene	Isobutylene	Isobutylerie	Isobutylene	lsobutylene	Isobutylene	Isobutylene	Isobutylene
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	Time	6:30am	7:00an	7:00m	7:25am	7:30gm	7:30	7:30sm	7:30am	7:30am		-			
	Date	81/2	9/10	9/20	4/24	125	9/210	12/6	82/28	(م/					

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Project: Rogers Park Main	Instrument: MiniRam	
Project #: 27194-4.07	Manufacturer: MIE	
	Sorial No. 100 Co	

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SINCE 1898	Calibration Notes and Comments							Paris on Gravenonina as a con	Comment and garding and one						
	Meter man Reading (ppm-or-%)	0.00	N N	0	0	0	0	0	0	0	٥	C	(20	0
	Zero Check	>	>	Ž))	J	7)	\	7	7	Ì]	
	STD Conc. (ppm or %)		,		***************************************	***************************************	·			1			1	-	(.
	Gas STD (Name))		-						,	-photosare	1		•	\
	er ons	Hot Havio	Harring Har	Lywing Hard	7-100 FM2	CANS CHARONS	Junuary's	Hang.	Shamp 1		HOT, SUMMY/	15. 10. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1.	The Part	for, go	6:55am Shory 950
1	Time	10.38	7:30	7:05	الميركر	765	7:20m	7:10km	7:30m	7:00 mm	7:0mm	7:15	(0:5am	6:50 m Smory	6:55am
-	Date	1/19	1/20	7/23	1/2/	1/25	7/26	£9 <u>/</u>	1/30	/3/	7	9/2	% 3	2	200

Instrument: MiniRam Manufacturer: MNE	Serial No.: 62.06 7
Project: Rogers Park Main Project #: 27194-4.07	

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								SINCE 1898	
Date	Time	Weather Conditions	Gas STD (Name)	STD Conc. (ppm or %)	Zero Check	Meter Reading mg/m³	1/m3	Calibration Notes and Comments	
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	Project:_E	Project: Rogers Park Main		Instrument: MiniRam	iRam		
	Project #:	27194-4.07		Manufacturer;	MIG		
				Serial No.:	02001	7	
Date	Time	Weather Conditions	Gas STD (Name)	STD Conc. (ppm or %)	Zero Check	Meter Reading	Calibration Notes e
8%	7:45 am	Samulgo			1	9	
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	Meter Reading 3	9	0	C	9	Q	0	2	0	9	Q	0	,	٥	D
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	Gas STD (Name)			-		(-	.	-		1	*	ł	
	Weather	Salumago	From S	a Company	Sund 700	Showing A	ast money	Second Provide	Percyculary	Shrum	Su may Pob	Summigeo	Summy 700	eso) functives	Summy 700
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Project: Rogers Park Main Instrument: MiniRam
Project #: 27194-4.07 Manufacturer: MIE

McDonnell	Calibration Notes and Comments													
L.	Meter Reading	(% 10 1110/d)	ο ξ	() (C	۵	0	Q	0				
02067	Zero Check	\	7 -	1	7	7]	1	1	7				
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o)	Gas STD (Name)	1	1	-				١	,	.1		-		
	Weather Conditions	HAMED, COR.	PAN 70°	Sumy 200	7:25am Cooney 560	Charles Sharmy SS.	7. 20m Gery JSSO	Surmy 150	of homes	2 June 100		~		
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	Date	81/6		2	72/6	4/25	g/se	12/2	97/28	(0)				

		1	Į.	1	1	1 1	Corrective Action	MUST WORK	ENTEN PIT										
a Sheet	-						Activities on eite	EXCAMPTION TO 12!											
Ambient Air Sampling Field Data Sheet					sednj	ren_	Benzene Tube												Jb.
nbient Air Sam	Դ - Peoples Gas		שחו	10-92-1	niRam, Drager T	enverine Winathercere	Readings PID	0.2+						ANALYSIS OF THE PROPERTY OF TH					xceed action level of 236 pp
An	Project Name: Rogers Park Main - Peoples Gas	27194-4.07	Jumy, M		MiniRae 2000, Mi	(burrance	Dust Monitor	810.0									÷		fence line readings for PID e
	Project Name:	Project Number: 27194-4.07	Weather Conditions:	Date:	Air Monitoring Equipment Used MiniRae 2000, MiniRam, Drager Tubes	Sampler:	Sample Location	IN PIT(BOTTOM)							4-				(1) Benzene tubes readings only required If fence line readings for PID exceed action level of 238 ppb.
	-				Air Mo		Time	mrego; g			-								 NOTES:

(1) centraine utuas reacingle only required it lence line readings for PID exceed
(2) Engineering controls required when dust levels exceed. 015 mg/m3.
(3) Corrective Actions are as follows;
A. Foamed excavated area.
B. Re-sampled and found new levels below action levels.
C. Upgraded to level;
D. Contacted project manager.
E. Shut-down project.
F. Below background results at specified location; no action taken.

					-						Ų	- 6	<u>Y</u>					 	 -	 	 						
	-						Corrective Action	Taken ³	SECHNSEOF	EXCE-881/F	HEAT- VISIE	DUSTA THENESTY	145 FLDS	Some warren	D. 10.	ON THEKING	(157								٠		
a Sheet			HEART WORX 105°-110° SAMMY					Activities on site	CHOING CHAMPING	ORECITO WASTE																	
Ambient Air Sampling Field Data Sheet			HEAT (WBS)		sedn	W.A.	H	penzene i ube																			
nbient Air Sam	л - Peoples Gas		Imaning.		niRam, Drager T	of Umtowar	Readings	Ú.																ceed action level of 236 ppt			
An	Project Name: Rogers Park Main -	27194-4.07	HEAT IN	8-1-01	MiniBae 2000, Mi	Connerna	Dust Monitor													-				lence line readings for PID ey t levels exceed .015 mg/m3.	below action levels.		lied location: no action taken,
	Project Name:	Project Number: 27194-4.07	Weather Conditions:	Date:	Air Monitoring Equipment Used MiniRae 2000, MiniRam, Drager Tubes	Sampler:	Sample	the was lot	As Car	172					-				4.		-		(4)	Corr	Posemed excavated srea. Resempled and found new levels below action levels. Inneeded to level to	D. Contacted project manager. E. Shuti-down project.	F. Below background results at specified location: no action taken.
					Air Mo		Time	10:00am							-							-	NOTES:	- -			

Ambient Air Sampling Field Data Sheet			UGHTENING, HOT		Tubes	Mrkthepar	Corr		HEAVY CAN CIGHTENING SHUT DOWN	+403+41		Teo Haz	· .		1 () () () () () () () () () (VERPIGATED					
Am	logers Park Main - Peoples Gas	7194-4.07	FAWN RAIN	8-2-0	liniRae 2000, Min	COMPETMEN	Duot Monitor	OHION TOP													
	Project Name: Rogers Park Main	Project Number: 27194-4.07	Weather Conditions: HENVI RAIN,	Date:	Air Monitoring Equipment Used MiniRae 2000, MiniRam, Drager Tubes	Sampler	Sample					CENTER TROOP	EXCAVATED HAZ WATER	Marie Tablica III III II			* .				
					Air Moi		Time	B.002			Т	4.50pm								-	

(2) Engineering controls required when dust levels exceed .015 mg/m3.
(3) Corrective Actions are as follows;
A. Foamed excavated area.
B. Re-sampled and found new levels below action levels.
C. Upgraded to level C.
D. Contacted project manager.
E. Shut-down project.
F. Below background results at specified location; no action taken.

		-		ł.	1		Corrective Action	Taken	D. L. S. W. T.	transfer of	Trances Appelie	To they was										
ta Sheet								Activities on site	されている。	\ <u> </u>												
Ambient Air Sampling Field Data Sheet		•	Z		ubes	Fee	D T L	adn i allazilad									-				Ď.	
nbient Air San	n - Peoples Gas		ID, Charpy		iniRam, Drager T	MARHOERER	Readings	מוג					·								xceed action level of 236 pp	· .
An	Project Name: Rogers Park Main	27194-4.07	Hor Humin	8-3-0	MiniRae 2000, MiniRam, Drager Tubes	("CANCTINOEN	Duet Monitor	011011011													lence line readings for PID e levels exceed .015 mg/m3. relow action (evels.	ed location: no action taken.
	Project Name:	Project Number: 27194-4.07	Weather Conditions:	Date:	Air Monitoring Equipment Used	Sampler:	Sample	Mence Hologons	TAR TANKS										-	-	 Benzene tubes readings only required if fence line readings for PID exceed action level of 236 ppb. Engineering controls required when dust levels exceed. 015 mg/m3. Corrective Actions are as follows; A. Foamed excevated are soften. B. Re-sampled and found new levels below action levels. 	C. Upgraded to level C. D. Contacted project manager. E. Shut-down project. F. Below background results at specified tocation: no action taken.
				.*	Air Mo		Time			-											NOTES	

Peoples Gas Peoples Gas Aux Horrect PlD Benzene Tube O. 2 t O. O. C. Consistent					THE PROPERTY OF THE PROPERTY O		Corr	Activities on site		SPACO	1F Nor Germa	MIT I COLDEN	CAR CITY								
Project Name: Rogers Park Main - People Project Number: 27194-4.07 Neather Conditions: Hot Swywy 90° Date: B-6-5 Sample Location Dust Monitor PID RWS (MY 1000 No. 27+ Leve Conditions only required if leves line readings for PID scored action leves and found new levels below action levels. Ambient People Reading and Sample Dust Monitor PID RWS (MY 1000 No. 27+ O. 27+ O. 27+ O. 27- Che Conditions only required if leves line readings for PID scored action levels accorded and found new levels below action levels. Researched and found new levels below action levels.	r Sampling Field Data Sheet	s Gas			ager Tubes	ertoestere	D - 1 - 1 - 1 - 1	edn I aenzene	0						The state of the s				And the second s	ıl of 236 ppb.	
	Ambient Ali	K Main	NVVV	Date: 8-6-61	Air Monitoring Equipment Used MiniRae 2000, MiniRam, Dr.	. [-				0.2+					4.				 Benzene tubes readings only required if fence line readings for PID exceed action fevel Engineering controls required when dust levels exceed .015 mg/m3. Fornective Actions are as follows; Foamed excevated area. 	I new fevels below action fevels.

		Δ	object Air Car	Ambient Air Campling Eigld Date Chart	++++	
	Project Name:	Project Name: Rogers Park Main	n - Peoples Gas	משל היוקיי	ים כוופפר	
	Project Number: 27194-4.07	27194-4.07		***************************************		
<u>-</u>	Weather Conditions:	Her Const	450	HERT IND	(Mark 1662	
	Date:	10-1-8	-			
Air M	Air Monitoring Equipment Used	< r	iniRam, Drager	Tubes		
	Sampler:	CONFETNEN 6	UheHolfer	7		
	Sample	J	Readings			Corrective Action
Time	Location	Dust Monitor	PID	Benzene Tube	Activities on site	Taken ³
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NOTES	(1) Benz (2) Engli (3) Corrr (3) Corrr (3) Corrr (3) Corrr (4) Corrr (5) Corrr (6) Corrr (6) Corrr (7) Corrr (7) Corrr (8) Corrr (9) Corrr (10)	if lence line readings for PID e ist levels exceed :015 mg/m3: s below action levels.	xceed action level of 236 p	qd		
	F. Below background results at specified location; no action taken.	cilled location: no action taken.				

Ambient Air Sampling Field Data Sheet Project Numbs: 27194-4.07 Weather Conditions: 1-194-4.07 Air Monitoring Equipment Used Ministers 2000, Ministers 10-195 Sample: 1-194-4.07

APPENDIX D
AMBIENT AIR ACTION LEVEL CALCULATIONS

Table D-1 Values Used For Allowable Concentration at Receptor Rogers Park Pond Parcel

Scenario Timeframe: Future

Medium: Soil

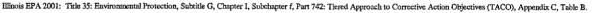
Exposure Medium: Surface/Subsurface Soil

Exposure Point: Surface Soil
Receptor Population: Residential User

Receptor Age: Child/Adult

Exposure Route	Parameter	Parameter Definition	Units	Value	Rationale/	Intake Equation
	Code				Reference	
Inhalation	IRn	Inhalation Rate (Non-Cancer)*	m3/hr	0.81	USEPA 1997	Non-Cancer Equation:
	IRc	Inhalation Rate (Cancer)**	m3/hr	1.9	USEPA 1997	Allowable Concentration at Receptor (Cb,r) (ug/m3) =
	EF	Exposure Frequency	days/year	40	USEPA 1991	(TRn x BWn x ATn x TDn x 1000ug/mg)/(EF x ED x IRn)
	ED	Exposure Duration	years	1	USEPA 1991	
	TRc	Target Risk (Cancer)	unitless	0.0000010	Assumed	
	TRn	Target Risk (Non-Cancer)	unitless	0.3	Assumed	Cancer Equation:
	BWc	Body Weight (Cancer)	kg	70	USEPA 1991	Allowable Concentration at Receptor (Cb,r) (ug/m3) =
	BWn	Body Weight (Non-Cancer)	kg	15	USEPA 1991	(TRc x BWc x ATc X 1000ug/mg)/(EF x ED x TDc x IRc)
	ATc	Averaging Time (Cancer)	days	25,550	USEPA 1991	
_	ATn	Averaging Time (Non-Cancer)	days	365	USEPA 1991	
	TDc	Toxicity Data (Cancer)	(kg-day/mg)	See Table D-3		
	TDn	Toxicity Data (Non-Cancer)	(mg/kg-day)	See Table D-2		

SOURCES:



USEPA 1991: Risk Assessment Guidance for Superfund. Vol.1: Human Health Evaluation Manual - Supplemental Guidance, Standard Default Exposure Factors. Interim Final. OSWER Directive 9285.6-03, March 15. USEPA 1993: Superfund's Standard Default Exposure Factors for the Central Tendency and Reasonable Maximum Exposure, November 4.

USEPA 1997: Exposure Factors Handbook: Volume I - General Factors, August.

NOTES:

^{*} Inhalation Rate used in non-cancer intake equation was calculated assuming residential expsosure of 0-6 year old child to outdoor air for 3 hours/day (IRn = 6.48 m3/day) based on the 1997 Exposure Factor Handbook.

^{**} Inhalation Rate used in cancer intake equation was calculated assuming residential exposure of an adult to outdoor air for 8 hours/day (IRe = 15.2 m3/day) based on the 1997 Exposure Factor Handbook.

Table D-2 Non-Cancer Toxicity Data -- Inhalation **Rogers Park Pond Parcel** Chemical Chronic/ Adjusted Units Primary Sources of Dates (1) RfC:RfD/ (MM/DD/YY) of Potential Subchronic Inhalation Target Target Organ Concern RfD Organ USEPA Chronic 1.7E-03 Hematological Region III, 10/23/01 mg/kg-day Benzene TACO USEPA CNS Region Toluene Chronic 1.14E-01 mg/kg-day 10/23/01 III/IRIS.

mg/kg-day

Developmental

USEPA

Region

III/IRIS.

10/23/01

NOTES:

Ethylbenzene

Chronic

2.9E-01



⁽¹⁾ Date of most recent search of IRIS/USEPA Region III.

IRIS = Integrated Risk Information System

TACO = Illinois EPA Tiered Approach to Corrective Action Objectives

Table D-3 Cancer Toxicity Data -- Inhalation Rogers Park Pond Parcel

Chemical	Inhalation	Units	Weight of Evidence/	Source	Date (2)
of Potential	of Potential Cancer Slope Cancer Guideline			(MM/DD/YY)	
Concern Factor De		Description			
Benzene	2.9E-02	(mg/kg-day) - 1	A	IRIS	10/23/01

NOTES:

NA = Not available.

IRIS = Integrated Risk Information System

(2) Date of most recent search of IRIS.

EPA Group:

A - Human carcinogen

B1 - Probable human carcinogen - indicates that limited human data are available

B2 - Probable human carcinogen - indicates sufficient evidence in animals and inadequate or no evidence in humans

C - Possible human carcinogen

D - Not classifiable as a human carcinogen

E - Evidence of noncarcinogenicity



Table D-4 Allowable Vapor Concentration at Source Rogers Park Pond Parcel

Equation 1:

 $ER^* = Cb,rxW,rxHb,rxUm,r$

Equation 2:

 $Cb,s^* = ER / (W,s \times Hb,s \times Um,s)$

Where:

ER = Emission rate (ug/s)

Cb,r = Allowable vapor concentration in box at receptor location (ug/m³)

W,r = Width of box from source area to receptor location (m)

Hb,r = Mixing height in box at receptor location (m)

Cb,s = Allowable vapor concentration in box at source (ug/m³)

W,s = Width of box at source area (m)

Hb,s = Mixing height in box at source (m)

Um, r or $s^* = Wind speed in mixing zone (m/s)$

Where:

Um,r or $s = 0.228 \times U10 \times ln(2.5 \times Hb,r or s)$

U10 is windspeed at 10 m elevation (m/s)

Variable Values:

Cb.r = Calculated

W,r = 122.0 m (distance from source to nearest residence)

Hb,r = 7.2 m (corresponding height based on box length)

W,s = 38.1 m (125 ft)

Hb,s = 2.95 m (corresponding height based on box length)

U10 = 4.69 m/s (IEPA, 2001)

Um,r = 3.1 m/s (calculated)

Um,s = 2.1 m/s (calculated)

	Cb,r	ER	Cb,s	
Chemical	(ug/m³).	(ug/s)	(ug/m³)	
Benzene	1.08E+001	2.92E+004	1.24E+002	
Ethylbenzene	1.84E+003	4.99E+006	2.12E+004	
Toluene	7.22E+002	1.96E+006	8.33E+003	
Xylenes (Total)				

NOTES:

*Gas Research Institute, 1988. Management of Manufactured Gas Plant Sites, Volume III: Risk Assessment. GRI-87/0260.3.

Illinois EPA 2001: Title 35: Environmental Protection, Subtitle G, Chapter I, Subchapter f, Part 742: Tiered Approach to Corrective Action Objectives (TACO).

Table D-5 Allowable Chemical Vapor Concentrations Rogers Park Pond Parcel

-	Vapor Con at Rec (µg/	ceptor at		centation urce m³)	Action	Action
Chemical	Noncancer Effects ¹	Cancer Effects ²	Noncancer Effects ¹	Cancer Effects ²	1 1	Level* (ppb)
VOCs		-				
Benzene	10.8	101	124	1,165	124	39
Ethylbenzene	1,838		21,201		21,201	4,883
Toluene	722	 .	8,330		8,330	2,211
Xylenes (Total)						

Notes:

- 1 Vapor concentrations at receptor location for noncancer effects calculated assuming residential exposure of 0-6 year old child to outdoor air for 8 hours/day over a 40 day exposure period (inhalation rate = 0.81 m³/hour, body weight = 15kg, target hazard index - 0.3).
- ² Vapor concentrations at receptor location for cancer effects calculated assuming residential exposure of an adult to outdoor air for 8 hours/day over a 40 day exposure period (inhalation rate = 1.9 m³/hour, body weight = 70kg, target cancer risk = 1E-06).
- * Action level at the source is the lower calculated concentration between the noncancer and cancer effects.



Benzo(a)anthracene¹			
Dust Concentration in Ambient Air (µg/m³)	Allowable Chemical Concentration in Dust (µg/kg)		
15	321,488		
50	96,446		
100	48,223		
150	32,149		
200	24,112		
250	19,289		

Benzo(a)pyrene¹			
Dust Concentration in Ambient Air (µg/m³)	Allowable Chemical Concentration in Dust (µg/kg)		
15	32,149		
50	9,645		
100	4,822		
150	3,215		
200	2,411		
250	1,929		

Benzo(b)fluoranthene1			
Dust Concentration in Ambient Air (µg/m³)	Allowable Chemical Concentration in Dust (µg/kg)		
15	321,488		
50	96,446		
100	48,223		
150	32,149		
200	24,112		
250	19,289		

Benzo(k)fluoranthene1			
Dust Concentration in Ambient Air (µg/m³)	Allowable Chemical Concentration in Dust (µq/kq)		
15	3,214,876		
50	964,463		
100	482,231		
150	321,488		
200	241,116		
250	192,893		

Chrysene ¹			
Dust Concentration in Ambient Air (μg/m³)	Allowable Chemical Concentration in Dust (µg/kg)		
15	184,833		
50	55,450		
100	27,725		
150	18,483		
200	13,862		
250	11,090		

Dibenz(a,h)anthracene ¹			
Dust Concentration in Ambient Air (µg/m³)	Allowable Chemical Concentration in Dust (µg/kg)		
15 -	32,149		
50	9,645		
100	4,822		
150	3,215		
200	2,411		
250	1.929		

Pyr	Pyrene ²			
Dust Concentration in Ambient Air (µg/m³)	Allowable Chemical Concentration in Dust (µg/kg)			
15	12,673,611			
50	3,802,083			
100	1,901,042			
150	1,267,361			
200	950,521			
250	760,417			

Notes:

- Allowable chemical concentrations in dust for carcinogenic PAHs calculated assuming residential exposure of an adult to outdoor air for 8 hours/day over a 40 day exposure period (inhalation rate = 1.9 m³/hour, body weight = 70kg, target cancer risk = 1E-06).
- 2 Allowable chemical concentrations in dust for pyrene calculated assuming residential exposure of 0-6 year old child to outdoor air for 8 hours/day over a 40 day exposure period (inhalation rate = 0.81 m³/hour, body weight = 15kg, target hazard index 0.3).



APPENDIX E CONSTRUCTION DAILY REPORTS

Erosion and Sediment Control Monitoring Report ROGERS PARK SUB SHOP – SOUTH PARCEL POND

		Day	of Co	nstruction 4
Erosion Sediment Control Report		Date:	6-13-01	WENDEROAM
Project Name	Rogers Park Sub Shop Se	uth Parcel	Excavation	
Location	Chicago, Illinois	NO	`	
Preparer's Name	1.62825			
Title				
Project Status:				
Is the project proceeding ac	ecording to schedule?		•	Yes No
Discuss project status:				
Disouss project status.			*	·
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Erosion Controls:				
Are appropriate erosion and	d sediment controls installe	d at this tir	ne?	Yes No
If no. list controls not in pla	ace and provide an explanat	ion why:	·	
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Comments:	**			
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	2 ()			
Signature:			Date:	6-13-01

Erosion and Sediment Control Monitoring Report ROGERS PARK SUB SHOP – SOUTH PARCEL HOND

Erosion Sediment Control Report		Day of Construction				
		Date:	10-14-01	THURSUAU		
Project Name	Rogers Park Sub Shop South Parcel Excavation Chicago Winois					
Location	Chicago, Illinois	עשט				
Preparer's Name	T.685			PARTIE		
Title						
Project Status:				<u> </u>		
Is the project proceeding according to schedule? Yes No No						
Discuss project status:						
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Erosion Controls:						
Are appropriate erosion and sediment controls installed at this time? Yes No L If no, list controls not in place and provide an explanation why:						
It no, list controls not in pla	ice and provide an explanati	on why:				
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Signature:	of Sin		. Date:	6-14-01		

Erosion and Sediment Control Monitoring Report ROGERS PARK SUB SHOP – SOUTH PARCEL

Erosion Sediment Control Report		Day	of Cons	truction (
		Date:	6-15-01	FRIDAU		
Project Name	Rogers Park Sub Shop South Parcel Excavation Chicago Illinois					
Location	Chicago, Illinois	MD .				
Preparer's Name	C.D. (285					
Title						
Project Status:		-		4 -		
Is the project proceeding according to schedule?						
Discuss project status:						
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Erosion Controls:						
Are appropriate erosion and	d sediment controls installed	d at this tu	ne?	Yes No		
If no, list controls not in place and provide an explanation why:						
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Signature:	42 CM		Date: L	0-13-01		

MONDAY

		Day 19	of Construction	
Erosion Sediment Contro	l Report	Date: 6-17-	01	·
Project Name	Rogers Park Sub Shop Se	uth Parcel Excava		-
Location	Chicago, Illinois	ND		-
Preparer's Name	T. GASS			-
Title				
Project Status:				_a ·
Is the project proceeding ac	ccording to schedule?		Yes 🔰	≤ No L
Discuss project status:	-			
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Erosion Controls:			Yes 🔽	
Are appropriate erosion and	l sediment controls installed	i at this time?	res 🔀	7 140
If no, list controls not in pla	ace and provide an explanat	ion why:		
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Signature:	F.D. Low	-	Date: 6-18-01	***
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Erosion and Sediment Control Erosion and Seument Monitoring Report ROGERS PARK SUB SHOP – SOUTH PARCEL

				WEDNESDAY		
Erosion Sediment Control Report		Day _	21	of Construction		
		Date:	6-	20-01		
Project Name		Rogers Park Sub Shop South Parcel Excavation				
Location	Chicago, Illinois	-0NO				
Preparer's Name	J. 6955					
Title						
Project Status:						
Is the project proceeding a	according to schedule?			Yes No		
Discuss project status:			-			
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Signature: (-/)	69m			Date: 6-20-01		

		Day 2.2		1URSDAY	
Erosion Sediment Control Report				struction	
			6-21-0	<u> </u>	
Project Name	Rogers Park Sub Shop S	buth Parcel Exc	avation		
Location	Chicago, minors		•		
Preparer's Name	D. SAETIC				
Title					
Project Status:				🗀	
Is the project proceeding	g according to schedule?	-		Yes No) [
Discuss project status:			•		
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Erosion Sediment Control Report		Date: 6 77-0	
Project Name	Rogers Park Sub Shop So		-
Location	Chicago, Illinois Po	NO	
Preparer's Name	D. SAFTIC		
Title		·	
Project Status:			
Is the project proceeding a	ccording to schedule?		Yes No
Discuss project status:			
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Erosion Controls:			SZ., TAT.
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MONDAY

Erosion Sediment Cor	strol Report		Construction
		Date: 6-25-0	
Project Name	Rogers Park Sub Sho	op South Parcel Excavation	
Location	Cincago, minois		
Preparer's Name	T. GASS		
Title			
Project Status:			** [7]
	g according to schedule?	· -	Yes No
Discuss project status:	•		
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Erosion Controls:			
Are appropriate erosion	and sediment controls ins	stalled at this time?	Yes No
If no, list controls not in	place and provide an exp	lanation why:	
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Signature:		/ Date	c. 10-47-01

Erosion Sediment Control Report		Day 25 of Construction			
		Date: 6-26-01			
Project Name	Rogers Park Sub Shop South Parcel Excavation				
Location	Chicago, Illinois	~			
Preparer's Name					
Title		-			
Project Status:		_2_			
Is the project proceeding a	ccording to schedule?	Yes 🔀 No 🗌			
Discuss project status:					
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Erosion Controls:		T Z Z			
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If no, list controls not in pi	ace and provide an explanat	ion wny:			
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Project Name	Rogers Park Sub Shop	South Parce	l Excavation		
Location	Chicago, Illinois	gwo .			
Preparer's Name	T. 6ASS			·	
Title					
Project Status:					
Is the project proceeding	g according to schedule?			Yes 📈 No 🗌	
Discuss project status:					
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THURSDAM

Erosion Sediment Cor	trol Report	Day 27 Date: 4	of Con	struction
	Rogers Park Sub Shop S			
Project Name Location	Chicago, Illinois	TWO	ayanon	
Preparer's Name	T. GASS			
Title	1 - 6/837			
Project Status:				
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Discuss project status:	g according to senedure:	•		100 / 100
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If no, list controls not in	place and provide an explan	ation why:		
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Signature: J 👔	y- chw		Date:	11-28-01

FRIDAY

Erosion Sediment Control Report		Day	of Construction
ETOSION Seutment Contro			29-01
Project Name	Rogers Park Sub Shop So	uth Parcel Exca	avation
Location	Cincago, inniois	and	
Preparer's Name	T.G.455	·	
Title			
Project Status:	•		
Is the project proceeding a	ccording to schedule?	-	Yes No
Discuss project status:			,
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Erosion Controls:			
	d sediment controls installed	l at this time?	Yes 🔀 No 🦳
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Signature:	t.O.bon		paic. g-vi-of

Erosion and Sediment Control

Monitoring Report ROGERS PARK SUB SHOP --SOUTH PARCEL FOND

		WEDNESOM			
Erosion Sediment Con	trol Report	Day 29 of Construction			
-		Date: 7-18-01			
Project Name	Rogers Park Sub Shop South Parcel Excavation				
Location	Cincago, initions	Pono			
Preparer's Name	C. MARHOEFER	<u> </u>			
Title					
Project Status:		_/			
Is the project proceeding	g according to schedule?	Yes No			
Discuss project status:	•				
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Ho	T, Hermio				
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	and sediment controls instal				
If no, list controls not in	place and provide an explai	nation why:			
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Comments: //		· · · · · · · · · · · · · · · · · · ·			
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//	1.11				
Signature: Lally	2 Marin	Date: 7-18-01			
7	/ -				

of Construction Day **Erosion Sediment Control Report** Date: 7-19-01 Rogers Park Sub Shop South Parcel Excavation **Project Name** Chicago, Illinois form Location Preparer's Name Title Project Status: Is the project proceeding according to schedule? Discuss project status: **Erosion Controls:** Are appropriate erosion and sediment controls installed at this time? No If no, list controls not in place and provide an explanation why: Comments: HASA FOR SHEET FILING INSTAUATION -INSTACLED WEATHER .₽

Signature:

Date:

<u> </u>		Day 3/ of Construction
Erosion Sediment Con	ntrol Report	Date: 7-20-01
Project Name	Rogers Park Sub Si	
Location	Chicago, Illipois	hop South Parcel Excavation
Preparer's Name	Q. MArert	toga.
Title	C. MIRA	567 <i>B</i> - C
	Line A. L. Company	
Project Status:	g according to schedule?	? Yes No
Discuss project status:	ig according to schedule:	168 140
Discuss project status.	,	·
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Erosion Controls:		
	and sediment controls in	
If no, list controls not in	place and provide an ex	planation why:
Comments:		Λ /
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ignature: Lita	2. n. way	Date: 7-20-01

Erosion and Sediment Control

Monitoring Report ROGERS PARK SUB SHOP - SOUTH-PARCEL

		Day 32	of Construc	rtion
Erosion Sediment Contro		Date: 7	1-23-01	FIOTI
Project Name	Rogers Park Sub Shop Se	uth Parcel Exc	avation	
Location	Cincago, minois	DND (
Preparer's Name	C. MARHOFFER			
Title				
Project Status:				/
Is the project proceeding ac	ccording to schedule?	• •		Yes No
Discuss project status:				7 -
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	167, dnm	y, Hum	O HAZY	
		1 ' '	<u> </u>	
	•			
Erosion Controls:				/
Are appropriate erosion and	l sediment controls installed	l at this time?	.c	Yes No
If no, list controls not in pla	ce and provide an explanat	ion why:	-	
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Comments:				
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Signature: Caty	Muh		Date: 7	23-01
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		TUESDAM
Erosion Sediment Control Report		Day 33 / of Construction
		Date: 7-24-0
Project Name	Rogers Park Sub Shop So	outh Parcel Excavation
Location	Chicago, Illinois	
Preparer's Name	C. MARHUER	êr_
Title		
Project Status: Is the project proceeding as Discuss project status:	ecording to schedule?	Sunny, HAZY
Erosion Controls: Are appropriate erosion and If no, list controls not in pla	I sediment controls installed ace and provide an explanati	
	STAUATION OF	P SHEET PILING D SONTHEAST VALLE BOX
	í	
Signature:	of May	Date: 7-24-51

	·.	Wedne	SVIN 1	
Erosion Sediment Con	ntrol Report	Day 34	of Constru	ction
	-	Date: 7-	25-01	· · · · · · · · · · · · · · · · · · ·
Project Name	Rogers Park Sub Sho	p South Parcel Exc	avation	
Location	Chicago, Illinois	40ND		
Preparer's Name	(NUARHOE	PER_		
Title				
	ng according to schedule?			Yes No
Discuss project status:	0			
	KAN, Clas	py, MICO		
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Erosion Controls:				
	and sediment controls inst			Yes No
If no, list controls not in	place and provide an expl	anation why:		
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Comments:				
Comments:				
Comments:	-Marien For	1 //	XC AVATIO	~
Comments:	-Merenew For	1 //	XCAWATIN	ν
Comments:	-Mensuros For -BEGAN EXCA	1 //	XCANATA FORDER	2
Comments:	-Mensuro For -BOGAN EXCA	1 //	XCANHIII Jordon	2
Comments:		1 //	XCAVATA FORDER	2
Comments:	-Merenro For -1806 AN EXCA	1 //	XCANHIIN TOOON	2
Comments:		1 //	XCAVATION FORDER	2
Comments:		1 //	XCANHIII JODEN	
Comments:		1 //	Date: 7-	

Erosion and Sediment Control

Monitoring Report
ROGERS PARK SUB SHOP - SOUTH-PARCEL

		THURSDAY	
Erosion Sediment Cor	itrol Report	Day 35 of Cor	nstruction
and the second s	-		ତ
Project Name	Rogers Park Sub Sho	South Parcel Excavation	
Location	Chicago, Illinois	7 Part 7	
Preparer's Name	1 (1. MARto	EFER-	
Title			
Project Status:			/
Is the project proceeding	g according to schedule?		Yes No
Discuss project status:		·	
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	Junny M	ILD	
	- Control Plan		,
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	and sediment controls instructional place and provide an explanation		Yes No
		<u> </u>	History and the state of the st
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Comments:	0 .		
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Signature: Inte	of Much	- Date:	7-26-01

Erosion and Sediment Control Erosion and Seument Monitoring Report ROGERS PARK SUB SHOP — SOUTH PARCEL

Erosion Sediment Control Report		Day of Construction
		Date: 7-27-01
Project Name		South Parcel Excavation
Location	Chicago, innois	4000
Preparer's Name	C-WARTO	EFEK.
Title		
Project Status:		
	g according to schedule?	Yes No No
Discuss project status:		
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Erosion Controls:		
Are appropriate erosion	and sediment controls instal	lled at this time? Yes No
If no, list controls not in	place and provide an explar	nation why:
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Comments:	- MUNREY WAR	15 to From Hower EXCAV. TO FRAGE
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	(SURVERD S	311 - SAMPLES'.
	10000	n-CSH-OIN DAM-CSH-OSU
	1 N BW	12 BH OLD PHILODISC
	1000	1- CS11-01 L 1GPNI-CS17,700-
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	yam-	- CSH-02L PrIM-CSH-04C
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	7 - I -A.	
Signature: Ca	140 B. 1/1/1/1	Date: /-27-0/

Erosion and Sediment Control

Monitoring Report
ROGERS PARK SUB SHOP - SOUTH PARCEL

	Day 37 of Construction
Erosion Sediment Control Report	Day S / of Construction Date: 7-30-0/
Designet Name Degree Derk Co	
Project NameRogers Park StLocationChicago, Illino	ub Shop South Parcel Excavation
	Hothar Cont
Preparer's Name	TIPE OFFER
Title	
Project Status:	,,,,
Is the project proceeding according to scheo	dule? Yes No
Discuss project status:	1
	-n. 1/2
	my, 1701
	, , , , , , , , , , , , , , , , , , , ,
Erosion Controls:	Vac No. 1
Are appropriate erosion and sediment contro	
If no, list controls not in place and provide a	in explanation why:
	A THE ACTION AND AND ADDRESS OF THE ACTION A
Comments: - HS Cawfu	ELED CUTTING 3" KEBAR ON
SOUTH STOR UP	- HOLDER FORMOMETIN
- EXCAUATION	W/LOADED NOW HAZ. SOIL
·	/
46	e TRUCK LOHOS
<u> </u>	
<u>-</u>	
<i>A</i> 1	

Erosion and Sediment Control

Monitoring Report ROGERS PARK SUB SHOP – SOUTH PARCEL

Project Name Location Chicago, Illinois Preparer's Name Title Project Status: Is the project proceeding according to schedule? Discuss project status: How, Sowmy Hoart Advisorer Erosion Controls: Are appropriate erosion and sediment controls installed at this time? If no, list controls not in place and provide an explanation why: Comments: - Now Hoar Soll excentilly Locations - Refer excentilly Locations - Bestim exclawdim at Street Piung - Separates Har From Non Har Soll - Separates Har From Non Har Soll - Separates Har From Non Har Concrete - Bastim Mucking In 3th Cruster Concrete - Street Auctions - Street Auctions - Street Rucking In 3th Cruster Concrete - Street Auctions - Street Auctions	Erosion Sediment Co	ntrol Report	Date: 7-3(-0)	
Controls: A	Project Name	Rogers Park Sub Shop S		
Preparer's Name Title Project Status: Is the project proceeding according to schedule? Discuss project status: HOT, Shwyy HEAT ADVISORY Erosion Controls: Are appropriate erosion and sediment controls installed at this time? If no, list controls not in place and provide an explanation why: Comments: - Now HAZ Soll Excandium Lostoins - Beson Excandium At Street Plung - Septimater HAZ From Non HAZ Soll - Septimater			bwo · · ·	
Title Project Status: Is the project proceeding according to schedule? Discuss project status: HOT, Sowmy HEAT HOUSONY Erosion Controls: Are appropriate erosion and sediment controls installed at this time? If no, list controls not in place and provide an explanation why: Comments: - Now HAZ SOL EXCAMPLIAN LOSTOING - BEEAN EXCAMPLIAN AT STEET PLUNG - SEPMEATEN HAZ FROM NON HAZ SOLL - BEEAN EXCAMPLIAN AT STEET PLUNG - SEPMEATEN HAZ FROM NON HAZ SOLL - BEEAN TRUCKING IN 3" CRASHOD CONCRETE	Preparer's Name	12 W4V2	HOREX	
Is the project proceeding according to schedule? Piscuss project status: HOT, SNWM HEAT HOUSONEY Erosion Controls: Are appropriate crosion and sediment controls installed at this time? If no, list controls not in place and provide an explanation why: Comments: Now HAZ SOL EXCANTION LOSTOING FROM HALODE BEGAN EXCANTION AT STREET PLUNG SEPTIMATED HAZ REM NON HAZ SOLL BEGAN TRUCKING IN 3" CRUSHED CONCRETE 1 34 TRUCKING IN 3" CRUSHED CONCRETE				
Discuss project status: HOT, SOWM HEAT HOUSDRY Erosion Controls: Are appropriate crosion and sediment controls installed at this time? If no, list controls not in place and provide an explanation why: Comments: - Now HAZ SOL EXCANATION LOSTOING - BEGAN EXCANATION AT STREET PIUNG SEPANATED HAZ From Non HAZ SOLL BEGAN TRUCKING IN 3" CRUSTED CONCRETE 1 34 TRUCKING IN 3" CRUSTED CONCRETE	Project Status:			
Erosion Controls: Are appropriate erosion and sediment controls installed at this time? If no, list controls not in place and provide an explanation why: Comments: - Now HAZ SAL EXCAMPTION / LOTTO INFO - FROM HADER. - BESTAW EXCAMPTION AT STEET PIUNG - SEPARATED HAZ From NOON HAZ SOIL - BESTAW (RUCKING IN 3" CRUSHED CONCRETE - J. 34 HUNCKING	Is the project proceeding	g according to schedule?	Yes No	,
Erosion Controls: Are appropriate crosion and sediment controls installed at this time? If no, list controls not in place and provide an explanation why: Comments: - Now Haz Sal Excanding Loronog + Rom Hayasia - Besan Excanding At State Piung - Sepanation Haz Rom Non Haz Soil - Besan Mucking In 3" Crustop Concluse - 34 Innellonos	Discuss project status:	<i>:</i>		
Erosion Controls: Are appropriate crosion and sediment controls installed at this time? If no, list controls not in place and provide an explanation why: Comments: - Now Haz Sal Excanding Loronog + Rom Hayasia - Besan Excanding At State Piung - Sepanation Haz Rom Non Haz Soil - Besan Mucking In 3" Crustop Concluse - 34 Innellonos		11.0	1/20 40:00:00	
Erosion Controls: Are appropriate erosion and sediment controls installed at this time? If no, list controls not in place and provide an explanation why: Comments: - Now-Haz Soll Exchanging/Londons - Besing Exchanging At Street Plung - Sepanates Haz Rem Non Haz Soil - Basing Thucking In 3t Christisp Conchese - 34 Princellowos		1707, ONW	my JEHT MOUSORY	
Erosion Controls: Are appropriate erosion and sediment controls installed at this time? If no, list controls not in place and provide an explanation why: Comments: - Now-Haz Soll Exchanging/Londons - Besing Exchanging At Street Plung - Sepanates Haz Rem Non Haz Soil - Basing Thucking In 3t Christisp Conchese - 34 Princellowos				
Are appropriate erosion and sediment controls installed at this time? If no, list controls not in place and provide an explanation why: Comments: - Now Haz Sall EXCAMPTION / LONDING FROM HALOGE - BEGAN EXCAMPTION AT STREET PILING - SEPANATED HAZ From Now HAZ Soil - BEGAN MUCKING IN 3" CRUSTED Concrete 1 34 IRMCKLONDS	·			
Are appropriate erosion and sediment controls installed at this time? If no, list controls not in place and provide an explanation why: Comments: - Now Haz Sall EXCAMPTION / LONDING FROM HALOGE - BEGAN EXCAMPTION AT STREET PILING - SEPANATED HAZ From Now HAZ Soil - BEGAN MUCKING IN 3" CRUSTED Concrete 1 34 IRMCKLONDS				
Are appropriate erosion and sediment controls installed at this time? If no, list controls not in place and provide an explanation why: Comments: - Now Haz Sall EXCAMPTION / LONDING FROM HALOGE - BEGAN EXCAMPTION AT STREET PILING - SEPANATED HAZ From Now HAZ Soil - BEGAN MUCKING IN 3" CRUSTED Concrete 1 34 IRMCKLONDS	•			
Are appropriate erosion and sediment controls installed at this time? If no, list controls not in place and provide an explanation why: Comments: - Now Haz Sall EXCAMPTION / LONDING FROM HALOGE - BEGAN EXCAMPTION AT STREET PILING - SEPANATED HAZ From Now HAZ Soil - BEGAN MUCKING IN 3" CRUSTED Concrete 1 34 IRMCKLONDS				
Are appropriate erosion and sediment controls installed at this time? If no, list controls not in place and provide an explanation why: Comments: - Now Haz Sall Excampling Lostoing From Haybore - Began Excampling At Street Plung - Stranger Haz From Now Haz Soil - Began Mucking IN 3" Criston Concrete 134 Innertance				-
Are appropriate erosion and sediment controls installed at this time? If no, list controls not in place and provide an explanation why: Comments: - Now Haz Sall EXCAMPTION / LONDING FROM HALOGE - BEGAN EXCAMPTION AT STREET PILING - SEPANATED HAZ From Now HAZ Soil - BEGAN MUCKING IN 3" CRUSTED Concrete 1 34 IRMCKLONDS			da da da da da da da da da da da da da d	
Comments: - Now-HAZ SOL EXCANTION/LOADING - FROM HALDER - BEEAN EXCANTION AT STEET PILLING - SEPARATEN HAZ FROM NON HAZ SOIL - BEEAN MICKING IN 3" CRUSTED CONCRETE		and andiment controls install	ad at this time?	
Comments: - Now-HAZ SOL EXCHNATION/LOTTOING - BEEAN EXCHANTION AT SHEET PILING - SEPANATED HAZ FROM NON HAZ SOIL - BEGAN TRUCKING IN 3" CRUSHOD CONCRETE 1 134 PRICKLONDS				
- Now-HAZ DOL EXCANATION LOSTOING FROM HOLDER - BEGAN EXCANATION AT STEET PIUNG -SEPANATED HAZ FROM NON HAZ SOIL - BEGAN TRUCKING IN 3' CRUSHED CONCRETE 134 PRINCELOTOS	11 IIO, HSt CONTIONS HOLD	i place and provide an explana	mon why.	
- NOW-HAZ DOL EXCANATION LOSTOING FROM HAVOER - BEGAN EXCANATION AT STEET PIUNG -SEPANATED HAZ FROM NOW HAZ SOIL - BEGAN TRUCKING IN 3" CRUSHED CONCRETE 134 PRINCELOTOS			^	
- NOW-HAZ DOL EXCANATION LOSTOING FROM HAVOER - BEGAN EXCANATION AT STEET PIUNG -SEPANATED HAZ FROM NOW HAZ SOIL - BEGAN TRUCKING IN 3" CRUSHED CONCRETE 134 PRINCELOTOS	 			
- NOW-HAZ DOL EXCANATION LOSTOING FROM HAVOER. - BEGAN EXCANATION AT STEET PIUNG -SEPANATED HAZ FROM NOW HAZ SOIL -BEGAN TRUCKING IN 3' CRUSHED CONCRETE - 134 PRICKLOTOS	 			
- NOW-HAZ DOL EXCANATION LOSTOING FROM HAVOER - BEGAN EXCANATION AT STEET PIUNG -SEPANATED HAZ FROM NOW HAZ SOIL - BEGAN TRUCKING IN 3" CRUSHED CONCRETE 134 PRINCELOTOS				
- NOW-HAZ DOL EXCANATION LOSTOING FROM HAVOER. - BEGAN EXCANATION AT STEET PIUNG -SEPANATED HAZ FROM NOW HAZ SOIL -BEGAN TRUCKING IN 3' CRUSHED CONCRETE - 134 PRICKLOTOS			•	
- NOW-HAZ DOL EXCANATION LOSTOING FROM HAVOER. - BEGAN EXCANATION AT STEET PIUNG -SEPANATED HAZ FROM NOW HAZ SOIL -BEGAN TRUCKING IN 3' CRUSHED CONCRETE - 134 PRICKLOTOS				
- NOW-HAZ DOL EXCANATION LOSTOING FROM HAVOER - BEGAN EXCANATION AT STEET PIUNG -SEPANATED HAZ FROM NOW HAZ SOIL - BEGAN TRUCKING IN 3" CRUSHED CONCRETE 134 PRINCELOTOS	·			
- NOW-HAZ DOL EXCANATION LOSTOING FROM HAVOER. - BEGAN EXCANATION AT STEET PIUNG -SEPANATED HAZ FROM NOW HAZ SOIL -BEGAN TRUCKING IN 3' CRUSHED CONCRETE - 134 PRICKLOTOS	Comments:			
- BEGAN EXCANATION AT STEET PILING -SEPANATED HAZ FROM NOW HAZ SOIL - BEGAN THUCKING IN 3" CRUSHED CONCRETE 134 PRINCELOADS	-	NW-HAZ- 2011	EXCANATION LOSTDING	
-SEPANATED HAZ FROM NON HAZ SOIL -BEGAN TRUCKING IN 3" CRUSHED CONCRETE 134 PRICKLONDS	. \	From - Hall	HEN /	
-SEPANATED HAZ FROM NON HAZ SOIL -BEGAN TRUCKING IN 3" CRUSHED CONCRETE 134 PRICKLONDS		1,7-1-0 //400		
-SEPANATED HAZ FROM NON HAZ SOIL -BEGAN TRUCKING IN 3" CRUSHED CONCRETE 134 PRICKLONDS		- BERN EXCAIN	HIM AT STEEL PLUNG	
-BEGAN PRINCKING IN 3" CRUSTED CONCRETE				
-BEGAN PRINCKING IN 3" CRUSTED CONCRETE		SEPANATEN H	FAZ DEOM NON -TAZ DOIL	
134 GENERLONDS				
134 Generionos		- BEGAN TRUCK	ING IN 3" CRUSTED CON	CKERE
		0.1		
		134 TRUCKLE	MOS	
	Signature:	w. J. Mark		

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E C Control D		Day 39 of Construction
Erosion Sediment Contr	ol Report	Date: 8-1-01
Project Name	Rogers Park Sub Shop Po	ond Parcel Excavation
Location	Chicago, Illinois	
Preparer's Name	C. MARHOER	9/L
Title		
Project Status:		,
Is the project proceeding a	according to schedule?	Yes No
Discuss project status:	-	
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	HOT, DANWY.	HEAT WARNING
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Erosion Controls:		
	d sediment controls installe	
If no, list controls not in p	lace and provide an explana	tion why:
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Comments:	940 100 774 11 /1 50 0101	- Alan Has Co
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		COM NEXTIC HOLDER HICEA 10 HOTEL
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Signaturas 4	2-1/11	Date: 8-1-0
Signature:	1- //www	Date. O O

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Erosion Sediment Control Report		Day 40		T ACTION
		Date:	8-2-01	·
Project Name	Rogers Park Sub Shop Po	nd Parcel Ex	Cavalion	
Location	Chicago, Illinois			
Preparer's Name	C. MARHOOR	-		, , , , , , , , , , , , , , , , , , ,
Title				7
Project Status:	poording to schedule?			Yes No
Is the project proceeding as	scording to schedule:			
Discuss project status:	.1	_		
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Erosion Controls:			•	
Are appropriate erosion and	d sediment controls installed	d at this time	?	Yes No
If no, list controls not in pla	ace and provide an explanat	ion why:		
		****	·	
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Comments:	1811/1-1000	6/00:	1/2 - C	
- EXCA	ATTION LOTTING	Now-	7/17 201	ws-No
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	3 Lottos			
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		<u></u>		
Cionatana /	11/1		Date:	8-2-01
Signature:	L. Malle		Date.	<u></u>

	tl Dt	Day 4/ of Construction	
Erosion Sediment C	ontroi Keport	Date: 8-3-0	
Project Name	Rogers Park Sub Sh	op Pond Parcel Excavation	
Location	Chicago, Illinois		
Preparer's Name	(. WARH	DEPER	
Title			
Project Status:			
	ing according to schedule?	Yes No L	
Discuss project status	•		
	Cioupy, F	hmis, Hot	
Erosion Controls: Are appropriate erosion If no, list controls not	on and sediment controls in		
	Due To Hoan	, RAIN-SHEET PLING MARK	>
	Due To Hean 3" From Sil		D
Comments:	Due To Hean 3" From Sil	, RAIN-SHEET PLING MARK	
	Due To Hean 3" From Sil Survey Schvatim / Lo Because of	RAIN-SILET PLING MONEY	
- 4	Due To Hean 3" From Sil Survey Schvatim / Lo Because of	MAIN-SHEET PLUNG MAERS DE WALK - FILLED BAP MOING NOW-HAZ WASTE LUMDS LUMDS LUMDS LOMOS RPM-CSH-OSL RPM-CSH-OS WPM-CSH-OSL RPM-CSH-OS	34L
- 4	DUE TO HEAD 3" FROM SIN SHEVEY SCAVATION / LO BECAUSE OF 66 TYPIC	PANN-SHEET PHUNG MONEYS DE WALK - FILLED BAP PADING NOW-HAZ WASTE ELUMDS ELUMDS EPM-CSH-OSU VEAM-CSH-OS VEAM-CSH-OSL RAM-CSH-OS PAM-CSH-OSL RAM-CSH-OS PAM-CSH-OSL RAM-CSH-OS PAM-CST-OIL WAM-CST-OY	34 C
- 4	Due To Hean 3" From Sil Survey EXCHVATION / LO BECAUSE OF LOG TYPICS:	MAIN-SHEET PLUNG MAERS DE WALK - FILLED BAP MOING NOW-HAZ WASTE LUMDS LUMDS LUMDS LOMOS RPM-CSH-OSL RPM-CSH-OS WPM-CSH-OSL RPM-CSH-OS	34 C
- 4	Due To Hean 3" From Sil Survey EXCHVATION / LO BECAUSE OF LOG TYPICS:	PANN-SHEET PHUNG MARK DEWALK-FILLED BAP MOING NOW-HAZ WASTE LUMDS LU	34 C

of Construction **Erosion Sediment Control Report** Date: Rogers Park Sub Shop Pond Parcel Excavation Project Name Chicago, Illinois Location (U. MARHOFFER Preparer's Name Title **Project Status:** Is the project proceeding according to schedule? Discuss project status: er and the specific con-**Erosion Controls:** Are appropriate erosion and sediment controls installed at this time? If no, list controls not in place and provide an explanation why: **Comments:** Date: Signature:

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D . C	1.D	Day 4	<u> /ろ_</u>	of Construction
Erosion Sediment Contro	n Keport	Date:	පි-	7-01
Project Name	Rogers Park Sub Shop Pe	ond Parcel	Excava	ntion
Location	Chicago, Illinois			
Preparer's Name	(. MARHOEX	en_		
Title				
Project Status:			•	/
Is the project proceeding ac	ccording to schedule?			Yes No
Discuss project status:	٨			
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Erosion Controls:				· · ·
Are appropriate erosion and	d sediment controls installe	ed at this tir	ne?	Yes No
If no, list controls not in pla	ace and provide an explana	tion why:		
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Comments:			7	
Long	DING MAZ 2010		160	ADS .
Lon	DING NON-HA	2 -	1 L	OFFICE CONTROL
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Signature:	ter X. Illes	/_		Date: 8-/-0/

of Construction **Erosion Sediment Control Report** Date: Rogers Park Sub Shop Pond Parcel Excavation **Project Name** Chicago, Illinois Location C. WARHOEFER Preparer's Name Title **Project Status:** Is the project proceeding according to schedule? Discuss project status: **Erosion Controls:** Are appropriate erosion and sediment controls installed at this time? If no, list controls not in place and provide an explanation why: Comments: FILLED WITH BENTONITE Date: Signature:

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		Day	45	_ of Cons	truction
Erosion Sediment Contro	l Keport	Date:	93-	9-01	~
Project Name	Rogers Park Sub Shop Por	nd Parcel I	Excavat	ion	
Location	Chicago, Illinois				
Preparer's Name	C. MARHOEFER	···			
Title	0 101114 1003 01				
Project Status:					/
Is the project proceeding ac	ecording to schedule?				Yes No
Discuss project status:	column to semedate.				
Discuss project status.	. 1				•
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Erosion Controls:		•			
Are appropriate erosion and	l sediment controls installed	l at this tin	ne?		Yes No No
If no, list controls not in pla	ce and provide an explanati	on why:			
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Signature: Lating	-1 //w/_			Date: 2	3-9-01
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E C. Harant Control	J. Donout		Construction
Erosion Sediment Contro	or Report	Date: 8/10/01	
Project Name	Rogers Park Sub Shop Por	nd Parcel Excavation	
Location	Chicago, Illinois		
Preparer's Name	(V. WHEHOER	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	
Title			
Project Status:			
Is the project proceeding ac	ccording to schedule?		Yes No
Discuss project status:	<u>-</u>		
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Are appropriate erosion and	d sediment controls installed	l at this time?	Yes No No
If no, list controls not in pla	ace and provide an explanat	ion why:	
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Comments:			
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	* Carpe		
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	37 LOADS		
Signature:	Allan-	Date	: 8-10-01
Dignature.			

Day 22 of Construction **Erosion Sediment Control Report** Date: Rogers Park Sub Shop Pond Parcel Excavation **Project Name** Chicago, Illinois Location Preparer's Name Title **Project Status:** Is the project proceeding according to schedule? Discuss project status: MILO, 80° F, OVERCAST **Erosion Controls:** Are appropriate erosion and sediment controls installed at this time? Yes If no, list controls not in place and provide an explanation why: Comments: REMOUNG 2"STEEL TI Date: Signature:

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Erosion Sediment Control Report		Day 48 of Constru	uction
		Date: 8-14-01	
Project Name	Rogers Park Sub Shop Por	nd Parcel Excavation	
Location	Chicago, Illinois		
Preparer's Name	1. MARHIER	GER	· · · · · · · · · · · · · · · · · · ·
Title			
Project Status:			
Is the project proceeding ac	cording to schedule?		Yes No
Discuss project status:			/—
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Erosion Controls:			
Are appropriate erosion and	sediment controls installed	d at this time?	Yes No
If no, list controls not in pla	ce and provide an explanat	ion why:	
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Comments:			
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Signature:	7 Much	Date: 8	14-01
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		Day 49	of Constru	ection
Erosion Sediment Control Report		Date: B	-15-01	
Project Name	Rogers Park Sub Shop P	ond Parcel Exca		
Location	Chicago, Illinois			
Preparer's Name	C. WLARHOE	PER_		
Title				
Project Status:				
Is the project proceeding	according to schedule?			Yes No
Discuss project status:				
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	SNMM 80F			
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	Water Committee			
Erosion Controls:		<u> </u>		
	nd sediment controls install	ed at this time?		Yes No
If no. list controls not in r	place and provide an explana	ation why:		
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C:		/	Date: 8-	15-01
Signature:	y n. out		Date. O	15-01

		THURSDAY	
Erosion Sediment Control Report		Day 50 of Construction	
		Date: 8-16-01	
Project Name	Rogers Park Sub Shop Pond Parcel Excavation		
Location	Chicago /Illinois		
Preparer's Name	C. MARHOEA	EV2	
Title			
Project Status:			
	g according to schedule?	Yes No No	
Discuss project status:			
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Erosion Controls:			
	and sediment controls inst	stalled at this time? Yes No	
If no. list controls not in	If no, list controls not in place and provide an explanation why:		
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Comments:			
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KEMOVED TSPHALT FROM FARKING LOT			
	30 ALC 300000		
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Signature:	max. The	Date: 876-01	

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73	I Damant	Day	of Construction)n
Erosion Sediment Contro	н керогі	Date: B-	7-01	
Project Name	Rogers Park Sub Shop Po	nd Parcel Exca	vation	
Location	Chicago, Illinois	-		
Preparer's Name	C. MARHOEFE	<u> </u>		
Title	C 75 17 15 1			
Project Status:	1			/
	acarding to schedule?			Yes No
Is the project proceeding a	ceofuling to schedule:	*		163 110
Discuss project status:				
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	d sediment controls installe	at this time?		Yes No
If no, list controls not in pla	ace and provide an explanat	ion why:		
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Comments: FECEIVE	o fou-off to	LES From	- MEUTAGE	•
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NO TRUCKING				
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Signature: Zully	J. Money		Date: 87	1-01

of Construction **Erosion Sediment Control Report** Date: Rogers Park Sub Shop Pond Parcel Excavation **Project Name** Chicago, Illinois Location Preparer's Name Title **Project Status:** Is the project proceeding according to schedule? Discuss project status: INM **Erosion Controls:** Are appropriate erosion and sediment controls installed at this time? Yes / If no, list controls not in place and provide an explanation why: **Comments:** CLEANED VALVE BOXES ROLL-OF BOXES DELEVERON - 2 TAKEN AMA

Date:

Signature:

UESTOM of Construction **Erosion Sediment Control Report** Date: Rogers Park Sub Shop Pond Parcel Excavation **Project Name** Chicago, Illinois Location . Whetere Preparer's Name Title **Project Status:** No Is the project proceeding according to schedule? Discuss project status: **Erosion Controls:** Are appropriate erosion and sediment controls installed at this time? If no, list controls not in place and provide an explanation why: Comments: Date: 8 Signature:

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Erosion Sediment Control Report		Day 54 of Construction
		Date: 6-22-8
Project Name	Rogers Park Sub Shop Pond Parcel Excavation	
Location	Chicago, Illinois	
Preparer's Name	1. MARHOO	fer2
Title		
Project Status:	<u> </u>	
Is the project proceeding a	ccording to schedule?	Yes No
Discuss project status:		
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Erosion Controls:		
Are appropriate erosion and	d sediment controls installe	d at this time? Yes No
If no, list controls not in pla	ace and provide an explanat	tion why:
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Comments:	ALAMAN Q F IM	11th Cont
EXCHIPTION S.E. VALUE BOX		
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	<u> </u>	
Si		Date: 8-22-0
Signature:	Z. Kay	Date. O DZ 0

of Construction Day **Erosion Sediment Control Report** Date: 23-01 Rogers Park Sub Shop Pond Parcel Excavation **Project Name** Chicago, Illinois Location Preparer's Name Title **Project Status:** Yes | No Is the project proceeding according to schedule? Discuss project status: **Erosion Controls:** Are appropriate erosion and sediment controls installed at this time? Yes If no, list controls not in place and provide an explanation why: Comments: Date: Signature:

		TRITOR		
	100	Day 36	of Constructi	ion
Erosion Sediment Cont	roi Keport	Date: 8-21	(-01	
Project Name	Rogers Park Sub Shop Po	ond Parcel Excavati	ion	
Location	Chicago, Illinois			
Preparer's Name		FERE.		
Title		<u> </u>	-	
Project Status:				/
Is the project proceeding	according to schedule?			Yes No
Discuss project status:				
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Erosion Controls:				
	nd sediment controls installe	d at this time?		Yes No
If no list controls not in t	place and provide an explana	tion why:		
if no, list condois not in p	nace and provide an exprana			
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Comments:	7 205-75	CLEANER		ALVE BOX
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Signature:	my Mel		Date: 8-2	4-01
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Erosion Sediment Contro	ol Report	Day 57 Date: 8	of Construction
Project Name	Rogers Park Sub Shop Po	<u></u>	ition
Location	Chicago, Illinois		
Preparer's Name	C. V ARHOE	YEVE	
Title			
Project Status:			
Is the project proceeding ac	ccording to schedule?		Yes No No
Discuss project status:			
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Erosion Controls:			
Are appropriate erosion and	d sediment controls installe	d at this time?	Yes No
If no, list controls not in pla			
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Comments			
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Signature: Lally	1. The		Date: B-27-0/

		7	UESDAY	
· C 1 C	- I Downard	Day	of Constru	ıction
Erosion Sediment Cont	roi Report	Date:	8-28-01	
Project Name	Rogers Park Sub Shop Pe	ond Parcel	Excavation	
Location	Chicago, Illinois			
Preparer's Name	() Whether	- 		
Title				
Project Status:				<u> </u>
Is the project proceeding	according to schedule?			Yes No
Discuss project status:				
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Erosion Controls:		1	0	Van Na 🗆 🖣
Are appropriate erosion a	nd sediment controls installe	ed at this th	me?	Yes No
If no, list controls not in p	lace and provide an explana	tion why:		
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Cianatara	- fellent		Date: 8	-28-01
Signature:	17 - 11/00/10 -		vac. O	

EDNESDAY of Construction Day **Erosion Sediment Control Report** Date: Rogers Park Sub Shop Pond Parcel Excavation **Project Name** Chicago, Illinois Location Preparer's Name Title **Project Status:** Is the project proceeding according to schedule? Discuss project status: **Erosion Controls:** Are appropriate erosion and sediment controls installed at this time? No Yes If no, list controls not in place and provide an explanation why: UNSITE Comments: low-142 WASTE From S.E. +auron-1100 Date: Signature:

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E C. limont Contr	ol Donart	Day OD	of Const	ruction
Erosion Sediment Contr		Date: &	3-30-01	
Project Name	Rogers Park Sub Shop Po	ond Parcel Exc	avation	
Location	Chicago, Illinois			
Preparer's Name	10. WARTERE	K		
Title				
Project Status: Is the project proceeding a Discuss project status:	according to schedule?	P		Yes No
Erosion Controls: Are appropriate erosion and If no, list controls not in p	nd sediment controls installe lace and provide an explana	ed at this time?		Yes No
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Signature: Tutu	L. Merk		Date: E	-30-01

		Day Of Co	onstruction
Erosion Sediment Contro		Date: 8-30-7	
Project Name	Rogers Park Sub Shop Por	nd Parcel Excavation	
Location	Chicago, Illinois		
Preparer's Name	10 MARHORE	2	
Title			
Project Status:			
Is the project proceeding ac	cording to schedule?		Yes No
Discuss project status:			<i></i>
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Erosion Controls:			
Are appropriate erosion and	d sediment controls installed	d at this time?	Yes No
If no, list controls not in pla	ace and provide an explanat	ion why:	/— —
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Signatural	11/1/1.	Date:	8-31-01
Signature:		Date.	

Erosion Sediment Contro	I Report	Day <u>(22 '</u> of Construction Date: 9-03-0/	
Project Name	Rogers Park Sub Shop Por		
Location	Chicago, Illanois		
Preparer's Name	1. Wantaca		
Title	O. W. MITTIDEF CITE		
	- 14 MARTINE CONTROL - 14 MART	7	
Project Status: Is the project proceeding ac	cording to schedule?	Yes No	
Discuss project status:	colding to schedule:		
Erosion Controls: Are appropriate erosion and If no, list controls not in pla	sediment controls installed ce and provide an explanati	at this time? Yes No On why:	
Comments:	2026 E OVS17E	To Primp WATER	
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		Poto: 9-3-27	
Signature:	D. Willy	Date: 9-3-0/	

		TUESDAY	
English Codiment Cor	atrol Danort	Day (03 of Construction	
Erosion Sediment Cor	ttroi Keport	Date: 9-4-01	
Project Name	Rogers Park Sub Shop P	ond Parcel Excavation	
Location	Chicago, Illipois		
Preparer's Name	(. MARHOEN	TER	
Title			
Project Status:			
Is the project proceeding	g according to schedule?	Ye	s No
Discuss project status:		,	
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Erosion Controls:			
	and sediment controls install	ed at this time? Yes	s No
If no. list controls not in	place and provide an explana	ation why:	
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Signature:	43.1/W/2	Date: 7-4-6	ව/

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	41D	Day 64	_ of Construction	on
Erosion Sediment Co	ntrol Report	Date: 9	7-5-0/	
Project Name	Rogers Park Sub Sh	op Pond Parcel Excava	ition	
Location	Chieago, Illinois			
Preparer's Name	MARHOE	PER_		
Title				
Project Status:				4 -
Is the project proceeding	ng according to schedule?			Yes No No
Discuss project status:				_
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Are appropriate erosion If no, list controls not in	n and sediment controls in n place and provide an ex	stalled at this time? planation why:		Yes No
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Signature:	22 1126-		Date: 7-	3 TU/

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Erosion Sediment Contro	ol Report	Day 5	df Construction .
Project Name	Rogers Park Sub Shop Po	nd Parcel Excav	ation
Location	Chicago, Illinois		
Preparer's Name		FFR.	
Title		, , - ,	
Project Status: Is the project proceeding as Discuss project status:	ccording to schedule?	n 80°	Yes No
			
Erosion Controls: Are appropriate erosion and If no, list controls not in pla	d sediment controls installed ace and provide an explanat		Yes No
Comments:	Managar phagas and a state of the state of 		
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Signature: July	1-11m		Date: 9-6-0/

Erosion Sediment Contro	A Report	Day 46	_ of Construct	ion
Erosion Seminent Contro		Date: 9 8	-7-01	
Project Name	Rogers Park Sub Shop Por	nd Parcel Excava	tion	
Location	Chicago, Illimois			
Preparer's Name	(. WARHOEFE	<u>e</u>		
Title				
Project Status:				_/ _
Is the project proceeding a	ccording to schedule?			Yes No No
Discuss project status:				
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Erosion Controls:	<u>, , , , , , , , , , , , , , , , , , , </u>	<u> </u>		
	d sediment controls installed	l at this time?		Yes No
If no list controls not in nl	ace and provide an explanat	ion why:		
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Signature:	2. 1mj		Date: 93-	1-01
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of Construction **Erosion Sediment Control Report** -10-01 Date: Rogers Park Sub Shop Pond Parcel Excavation **Project Name** Chicago, Illinois C. WARHOEFER Location Preparer's Name Title **Project Status:** Is the project proceeding according to schedule? Discuss project status: **Erosion Controls:** Are appropriate erosion and sediment controls installed at this time? Yes If no, list controls not in place and provide an explanation why: Comments: Date: 40-01 Signature:

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Erosion Sediment Contro	al Papart	Day _	68	of Constru	ction
Erosion Sediment Contro		Date:		11-01	
Project Name	Rogers Park Sub Shop Por	nd Parce	l Excavati	on	
Location	Chicago, Illinois				
Preparer's Name	C. MACHOEVER				
Title					
Project Status:					
Is the project proceeding ac	ccording to schedule?				Yes No
Discuss project status:					
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Erosion Controls:	A College of the Coll	Y		····	1
Are appropriate erosion and	d sediment controls installed	at this	time?		Yes No
If no, list controls not in pla	ace and provide an explanat	ion why	•		
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Signature: Cata	2 When			Date:	7-11-01
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WEDNESDAY of Construction **Erosion Sediment Control Report** Date: Rogers Park Sub Shop Pond Parcel Excavation **Project Name** Chicago, Illinois Location Preparer's Name Title **Project Status:** Is the project proceeding according to schedule? No Discuss project status: SUMM 850 **Erosion Controls:** Are appropriate erosion and sediment controls installed at this time? Yes If no, list controls not in place and provide an explanation why: Comments: NOW-HAZ. WASTE-5 COAPS FORMORTION EAST PORTION OF PARKING LOT FENCE Date: Signature:

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	2:30	Day	70 of	Construction	
Erosion Sediment Contro		Date:	9-13-	0	
Project Name	Rogers Park Sub Shop Por	nd Parcel	Excavation		
Location	Chjqago, Illinois				
Preparer's Name	C. MARHOEFEY	2	`		
Title					
Project Status:	•			~ *	
Is the project proceeding ac	ccording to schedule?			Ye	s No
Discuss project status:					`
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Erosion Sediment Cor	ntrol Report		f Construction	-
		Date: 9'-14		
Project Name		Pond Parcel Excavation	1	
Location	Chicago, Illinois	_		
Preparer's Name	C-MAHDEREY	2		
Title			A-1-04-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-	
Project Status:	*		17 h	<u>, </u>
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		Day 72_ of Construction	
Erosion Sediment Contr		Date: 9-17-01	
Project Name	Rogers Park Sub Shop P	ond Parcel Excavation	
Location	Chicago Illinois		
Preparer's Name	Metagree		
Title			
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Erosion Sediment Contro	i Keport	Date:	9-18-01	
Project Name	Rogers Park Sub Shop Po	nd Parce	el Excavation	
Location	Chicago Illinois			
Preparer's Name	C. WARHOEFER	-		,
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Project Status:				<u> </u>
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Erosion Sediment Con	troi Keport	Date: 9-19-01
Project Name	Rogers Park Sub Sho	pp Pond Parcel Excavation
Location	Chicago, Illinois	
Preparer's Name	C. WARHOE	Ster
Title		
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Di osion Scamient Co.		Date: 9-20-0/
Project Name	Rogers Park Sub Shor	p Pond Parcel Excavation
Location	Chicago, Illing's	
Preparer's Name	Chicago, Illinois	teren
Title		
Project Status:		
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Ein-Codi	Donort	Day 76	of Construc	ction
Erosion Sediment Contro		Date: 9-	27-01	
Project Name	Rogers Park Sub Shop Po	nd Parcel Exc	avation	
Location	Chicago, Illinois			
Preparer's Name	C. MARHOEPER	<u>-</u>		
Title				
Project Status:				
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Signature:	X 1/1/1/1		Date: 9-2	2/-01

of Construction Day **Erosion Sediment Control Report** Date: Rogers Park Sub Shop Pond Parcel Excavation **Project Name** Chicago, Illipois Location Preparer's Name Title **Project Status:** Is the project proceeding according to schedule? Discuss project status: Cronon, Coor 55° **Erosion Controls:** No Are appropriate erosion and sediment controls installed at this time? If no, list controls not in place and provide an explanation why: Comments: WON-HAZ WASTE - 29 LOADS Fly - BACKFINED Date: Signature: 7

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Erosion Sediment Cont	rol Report	Day 78 of Construction Date: 9-25-0/
Project Name	Rogers Park Sub Shop P	
Location	Chicago, Illinois	VIII
Preparer's Name	WheHOER	301
Title	C VO CHICATORY	
Project Status:	A STATE OF THE STA	
Is the project proceeding	according to schedule?	Yes No
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Discuss project status:		
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If no, list controls not in	place and provide an explana	auon wily.
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Signature:	A. Uly	- Date: 9-25-01

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Erosion Sediment Contro	al Report	Day /9	of Constr	uction
Erosion Sediment Contro			26-01	
Project Name	Rogers Park Sub Shop Po	ond Parcel Excav	/ation	
Location	Chicago, Illinois	<u> </u>	****	
Preparer's Name	10 MARHOEN	FEL		
Title				
Project Status:				
Is the project proceeding a	ccording to schedule?			Yes No
Discuss project status:	•			
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Signature:	I-Muh		Date:	7-26-01
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Erosion Sediment Control Report Project Name Location Chicago, Illinois Preparer's Name Title Project Status: Is the project proceeding according to schedule? Discuss project status: Erosion Controls: Are appropriate crosion and sediment controls installed at this time? If no, list controls not in place and provide an explanation why: Comments: C			THURS	Om
Project Name Rogers Park Sub Shop Pond Parcel Excavation Location Chicago, Illinois Preparer's Name Title Project Status: Is the project proceeding according to schedule? Discuss project status: Lost Surmy 65° Erosion Controls: Are appropriate crosion and sediment controls installed at this time? If no, list controls not in place and provide an explanation why: Comments: Lostoso Mow Haz Waste- Excavated and Regiment Controls May Regiment Mass Regiment In Pau - CAL & S'STONE		4	Day 60	of Construction
Comments: Comm	Erosion Sediment Control Report Date: 9-2			27-01
Comments: Comm	Project Name	Rogers Park Sub Shop I	Pond Parcel Excava	ation
Title Project Status: Is the project proceeding according to schedule? Discuss project status: Lost Surmy (55° Erosion Controls: Are appropriate crosion and sediment controls installed at this time? If no, list controls not in place and provide an explanation why: Comments: Com		Chicago, Illinois		
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Erosion Controls: Are appropriate erosion and sediment controls installed at this time? If no, list controls not in place and provide an explanation why: Comments: Lottoro Mon-Haz Waste Exchange And Removes Mess Brensht In Fin - CAL & 3"Stone	Project Status:	r		Var No No
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Erosion Controls: Are appropriate erosion and sediment controls installed at this time? If no, list controls not in place and provide an explanation why: Comments: Lottogo Mow-HAZ WASTE EXCAMATED AND Remarch PAFS Parangett IN Fin — CAL \$ 3" Stowle	Discuss project status:			
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Erosion Controls: Are appropriate erosion and sediment controls installed at this time? If no, list controls not in place and provide an explanation why: Comments: Lottogo Mow-HAZ WASTE EXCAMATED AND Remarch PAFS Parangett IN Fin — CAL \$ 3" Stowle		1957 ON MAN	1 650	
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signature: Many - 100 ff Date. 70701	S: L	2 J Mark		Date: 9-7.7-01
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Erosion Sediment Contr	ol Report	Day 81 of Constr Date: 9-28-0/	ruction
Project Name	Rogers Park Sub Shop Por		
Location	Chicago, Illinois		
Preparer's Name	(. Whetoers	2	
Title			
Project Status: Is the project proceeding a Discuss project status:	ccording to schedule?	2 1 1441 2014	Yes No
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Signature:	1. May	Date: 9	-28-01

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Location Chicago Minois Preparer's Name Title Project Status: Is the project proceeding according to schedule? Discuss project status: Erosion Controls: Are appropriate erosion and sediment controls installed at this time? If no, list controls not in place and provide an explanation why: Comments: Commen	Erosion Sediment Contro	ol Keport		
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Preparer's Name Title Project Status: Is the project proceeding according to schedule? Discuss project status: Frosion Controls: Are appropriate crosion and sediment controls installed at this time? If no, list controls not in place and provide an explanation why: Comments: Comm		Chicago Illinois		
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Signature: College Voy Date: 16-01-01	<u> </u>	1 11/1/1/1/1/1/1/1/1/1/1/1/1/1/1/1/1/1/	1 1 21	
	Signature: Col	ear- way	Date: /6-0/-C	

		TUESDAY	
Erosion Sediment Co	ntrol Report		onstruction
Erosion Semment Co	mu oi Kehott	Date: 10-02-0	1
Project Name	Rogers Park Sub	Shop Pond Parcel Excavation	
Location	Chicago, Illinois		
Preparer's Name		OFFER	
Title			
Project Status:			
Is the project proceeding	g according to schedule	e?	Yes No
Discuss project status:			
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Signature:	of an A	Date:	10-2-01
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APPENDIX F
REMEDIAL ACTION DISPOSAL QUANTITIES

Date	Manifest Number	Weight (Tons)	Daily Total (Tons)	Grand Total (Tons)
06/13/2001	9528055	15.600		
		17.680		
		13.690		
		17.810		
	9528056	16.720		
		17.430		
		14.210		
		21.260	7	
	9528057	19.130		
		19.080		
		14.630	7	
	9528058	13.620		
		13.240		
		13.900		
F	9528059	16.000		
		14.400		
		18.960		
	9528060	17.250		
		19.670		
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	9528061	18.960	7	
		17.990	1	
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	9528062	17.720	7	
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	7320000	14.880	1	
		19.040	641.440	641.440
06/19/2001	9528183	19.030		
00/17/2001	7320103	15.880	-	
		13.970	-	
ļ.			-	
ļ		17.090	-	
<u> </u>	0500104	16.030	4	
	9528184	15.160		<u> </u>

Date	Manifest Number	Weight (Tons)	Daily Total (Tons)	Grand Total (Tons)
06/19/2001	9528184	17.220		
		20.210		
		14.750		
	9528185	20.600		
		18.900		
-		19.930		`
ľ	9528186	20.190	7	
		15.920		
		18.800		
F	9528187	19.850		
		14.900	1	
		22.480		
ľ	9528188	17.680		
		17.870		
j	9528189	16.480	1	
		17.560		
		16.430		
F	9528190	16.450		
		11.380	1	
		17.220	1	
F	9528191	13.560		
, i		15.870	1	
		14.370		
[9528192	18.140	,	'
		16.030	1	
		17.870	1	•
Ī	9528193	13.310		
		13.530		
	9528194	17.870		•
.		16.530		•
	9528195	15.780		
	•	15.190		
	•	10.920		
r	9528196	15.600		·
		14.910		
		15.290		
F	9528197	16.380		
		17.110	1	
-	9528198	17.490	1	
		16.920	1	
		18.060	1	
-	9528199	18.240		
		14.280		

Date	Manifest Number	Weight (Tons)	Daily Total (Tons)	Grand Total (Tons)
06/19/2001	9528199	14.220		
	9528200	17.760	7	
		14.390		·
ĺ		17.600	7	
	9528201	18.000		
		14.680		
		15.790		
ľ	9528202	12.220		
		17.350	957.240	1598.680
06/20/2001	9528203	14.180		
00,207	7727077	20.090	· ·	
		18.470		-
		17.390		
<u> </u>	9528204	20.170	=	
	300001	18.420	╡	
		16.980		
		18.220	1]
ŀ	9528205	19.440	-	
	,020200	21.550	-	
		19.910	-	
		19.690		
	9528206	18.780	┥	
	3320200	20.130	-	
		19.920		
	9528207	16.020	-	
)320201	18.520		
		17.090		
1		14.920	-	
-	9528208	18.500	-	
	9320200	19.930		
		17.760	-	
		17.520	-	
-	9528209	17.170	-	
Ì	9328209	18.050	4	
		17.730		
			4	
	0.536310	15.090		
	9528210	19.420	_	
		22.120	┥ .	
		23.980		
L	0.746644	22.370	4	
.	9528211	14.400		
ĺ		17.090		
		15.240	ł	

Date	Manifest Number	Weight (Tons)	Daily Total (Tons)	Grand Total (Tons)
06/20/2001	9528211	13.900		
	9528212	17.980		
		20.430	<u></u>	•
		17.790		
		16.880		
Ţ	9528213	16.780	7	
1	•	21.730	7	
		19.660	7	
		16.700	7	
Ī	9528214	17.440		
		17.410	7 .	
		19.120	7	
		18.160		
_	9528215	21.100	7	}
		21.370	┪	
		20.010	1	
ŀ	9528216	17.480	·	
		19.770	-	
		17.770		
		18.610	1	
-	9528217	21.310		
	J320217	19.090	-	
		16.810	-	
		17.860	-	
	9528218	18.520	-	
	7320210	16.480	-	
		16.910	-	
·	9528219	21.600		·
	9320219	19.940		
		17.660	•	
		16.960		
. -	9528220	20.410	-	
	7526220	19.480		
·		17.050		
		19.620	-	
-	9528221	18.210	_	
1	9328221	18.060	-	
	,	17.730		
-	9528222		-	
į	9348444	15.190	1362.490	2961.170
0.6/0.4/0.005	0.50000	17.250	1302.490	4901.170
06/21/2001	9528223	18.290	4	
<u> </u>		21.440	4	
	9528224	16.470		

Date	Manifest Number	Weight (Tons)	Daily Total (Tons)	Grand Total (Tons)
06/21/2001	9528224	19.570		
		18.800	7	
	9526225	20.300		
	9528226	22.750		
		23.710		
		27.490		
Ī	9528227	19.600		
1		18.450		
		22.210		
	9528228	17.710		
		20.360]	
		19.760	1	
į		19.500		
Ī	9528229	19.140	1	:
		19.600		
		18.130		
-	9528230	18.920		
		20.890		
ŀ		19.530		
	9528231	19.910		
		19.870		
		21.070		
	9528232	19.280		
		17.810		
		19.780]	· ·
Ţ.	9528233	14.780		
		15.730		
		16.780	·	
	9528234	17.200]	
		23.410		
		21.780		
·	9528235	17.160		
		24.050		
		26.990		
	9528236	16.460		
		21.000		
		20.760		
	9528237	17.630		
		18.130		
		20.680		
	9528238	17.720		
		22.400		
		19.770		

Date	Manifest Number	Weight (Tons)	Daily Total (Tons)	Grand Total (Tons)
06/21/2001	9528239	18.800		
		21.210		
		20.340		
	9528240	16.910	7	
ŀ		20.260	7	
		19.160	7	
	9528241	13.700	7	
		16.820		
		21.030	1081.000	4042.170
06/22/2001	9340141	20.080		
		21.690	7	
1		20.300		
<u></u>	9340142	20.800		
		22.550	7	
		22.280	7	
1		19.640	7	
	9340143	18.880		
İ		18.680		
·]		19.960		
		17.410		
Ī	9340144	22.820		
İ		17.930	7	
		15.410		
Ī	9340145	17.890		
		16.450		
1		16.790		
· -	9340146	20.200		
ļ		16.570		
		18.490		
·	9340147	17.850	7	
ŀ		14.980		
		17.790		
<u> </u>	9340148	23.030		
		22.300		
		24.410		
·	9340149	18.700		
		18.110		
		19.770	1	
F	9340150	18.490		
		17.790	1	
		16.090	7	
	9340210	19.270	1	
		18.960	1	

Date	Manifest Number	Weight (Tons)	Daily Total (Tons)	Grand Total (Tons)
06/22/2001	9340210	17.730		-
	9340211	20.240]	
		18.470	· ·	
		19.820	1	
	9340212	17.730]	
l		19.280		
		16.200		
	9340219	21.780		
	•	21.480		
		20.080		
ľ	9340231	20.600		
		18.730		
		16.710	1	
	9528242	20.190		
		19.550		
Ì		19.770	1	
		18.430	1	
	9528243	20.300]	
		18.360		
		16.840		
		17.580		
	9528244	22.300		
		19.940		
		19.610		
•		17.540		
	9528245	20.420		
		19.420		
	•	18.800		
		20.190		
	9528246	20.120		
İ		19.940		
		17.880		·
		18.040		
F	9528247	19.670		
		17.650		
		18.130		
		16.220		
	9528248	19.990		
ŀ		19.350		
		19.140		
		18.090		
ļ-	9528249	20.340		
ļ		22.490		

Date	Manifest Number	Weight (Tons)	Daily Total (Tons)	Grand Total (Tons)
06/22/2001	9528249	20.840		
	9528250	20.120		
		21.110		
		18.190		
ľ		19.620	1577.380	5619.550
06/25/2001	9340151	26.130		
		19.770		
		21.620		
	9340152	19.660		
		19.100	7	
		19.860		
	9340153	21.350	_	
		19.460		
		20.240		<u> </u>
	9340154	22.410		
		19.360		
		19.120		
F	9340155	22.930		
		20.190		
	9340156	20.750		
		17.720	•	
		20.060		
F	9340157	20.230		
1		18.380		
		19.300		}
Ė	9340158	20.830		
1		17.670		
		18.990		
F	9340159	21.030	_	
		16.430	7	-
		18.340		
	9340160	20.020	-	
		18.210		<u> </u>
		17.730	i	
<u> </u>	9340161	24.280		
		25.720	1 .	
		23.920	1	
F	9340162	22.030	1	
)	17.070	1	
ł		19.350	1	
	9340163	22.770	╡	
1	7570105	19.210	†	
		21.840	4	

Date	Manifest Number	Weight (Tons)	Daily Total (Tons)	Grand Total (Tons)
06/25/2001	9340164	21.830		
		21.010		
	9340167	19.970		
		20.700		1
		18.660		
· [9340168	18.340		
		17.850		
		17.540		
	9340169	22.150		
·		20.860		
		19.340		
	9528426	23.910		
		18.760	1034.000	6653.550
06/26/2001	9340170	20.690		
		18.210		
		19.220		<u> </u>
	9340171	18.080		
		18.990		
	9340172	20.830		
		17.650		
		18.570		
		18.100		
F	9340173	19.320		
		19.740		
Γ	9340174	18.300		
		20.020		
		15.040]	
L		20.280		
	9340175	19.360		
		19.080		
		15.760	_}	
		18.690	<u>_</u>	
	9340176	19.010	_]	
		18.640	_]	
1		17.730	_	
Ŀ		19.840		
	9340180	21.150		
		21.440		
		23.260	_	
	9340181	19.560	_	
		20.460	_	
		20.060		
ŀ		20.500		

Date	Manifest Number	Weight (Tons)	Daily Total (Tons)	Grand Total (Tons)
06/26/2001	9340182	20.810		
		19.080		
Ī		19.690		
	9340183	23.890		
·		22.580		
		25.640		
	9340184	19.310		
		17.860		
		17.410		
	9340185	21.190		
		19.860		
		21.730		
	9340186	20.680		
		14.630]
		20.590	882.530	7536.080
06/27/2001	9340187	21.040		
		18.000		
		17.840		
	9340188	26.190		
	-	24.900		
		21.470		
Γ	9340189	18.320		
		16.960		
		16.890		
		16.710		
	9340190	20.560		
		20.470		
		18.610		
		18.030		
	9340191	18.110		
. [20.460		
		21.120		
L		17.520		
	9340192	19.160	_	
		16.870		
		16.930	_	
	9340193	20.280	4	
1		16.300		
L		19.630	_	
	9340194	21.460		
ĺ		18.940	_	
		21.180		
· [9340195	20.080		

Date	Manifest Number	Weight (Tons)	Daily Total (Tons)	Grand Total (Tons)
06/27/2001	9340195	20.930		
į		21.700		
Ī	9340196	14.610		
ļ		17.040	7	
Ī	9340197	13.460	-	
		16.570		
		18.280	-	
. [9340198	18.130	1	
		18.340	7	
ľ	9340199	17.170		
	•	18.000	-	
<u> </u>	9340200	17.550		
		19.450	7	
ſ	9340201	20.610		
ľ	9340202	16.410	812.280	8348.360
06/28/2001	9340203	18.940		
1		19.470	7	
İ		19.390		
<u> </u>	9340213	19.930	_	
ĺ		20.020	_	
		20.400	1	
	9340214	16.300	7	
		19.880	-	
		20.730	7	
		17.050	7	
	9340215	21.000	1	
		16.600		
		18.740	1	
·		18.130	1	•
	9340216	21.040	1	•
		18.910	1	
	•	21.540	1	
		17.490		
	9340217	19.260	-	
		19.610		
ŀ		18.160		•
	9340218	17.210]	
		18.700		
:		18.550]	
		16.290	1	
	9340220	19.670		
		24.290	1	•
		18.760	1	

Date	Manifest Number	Weight (Tons)	Daily Total (Tons)	Grand Total (Tons)
06/28/2001	9340220	19.120		
-	9340221	18.980		
		17.270		
		19.240	1	
		16.940		
	9340222	19.620		
		21.950	7	
·		22.040		
		20.360		
F	9340223	19.590		
		20.340		
		18.300		
F	9340224	18.580	7	
ļ		16.740	7	
		18.780		
F	9340225	22.460		İ
		23.490	-	
		22.750	7	
. [9340226	21.150		
		19.250	-	
1		19.570		
		17.680		
r	9340227	21.810		
1	•	22.430		
į.		24.110	·	
		18.980		
F	9340228	17.570		
		20.770		
		20.600	7	
l		17.920		
F	9340229	17.560	1 .	
		19.140		
		16.220		
F	9340230	18.740		
	9340232	19.170		
<u> </u>	9340233	18.910		
		18.660	7	
İ		17.760	1280.610	9628.970
06/29/2001	9340234	17.040		
00,27,2001	10401	19.240		
		19.260	7	
F	9340235	18.020	┪	
į	/540255	18.460	+	

Date	Manifest Number	Weight (Tons)	Daily Total (Tons)	Grand Total (Tons)
06/29/2001	9340235	23.230		
	9340236	20.270		
		19.540		
İ		17.110		
Ī	9340237	13.950		
		16.240		
		17.870		
	9340238	18.260		
:		19.140	<u> </u>	
-		20.940	1	
Ī	9340239	17.500	1	
		15.780	1	
	•	20.420		
F	9340240	18.540		
		19.420	••••••••••••••••••••••••••••••••••••••	
		19.320		
	9340241	12.720		
		16.380	- -	
		17.410	-	
ľ	9340242	16.840		
		18.610		
		15.660	1	
-	9340243	21.980		
		18.950		
		15.150		
	9340244	17.520		
		20.450	1	
		16.680		
ľ	9340246	19.540		
		20.760		
•		18.820		
	9340247	19.800	1	
		21.020		
T	9340248	15.080		
		16.400		
	9340249	18.140		
		16.450	1	
F	9340250	17.700]	
		16.140		
	9340251	22.320		
		22.200		
	9340252	16.130		
		15.540		

Date	Manifest Number	Weight (Tons)	Daily Total (Tons)	Grand Total (Tons)
06/29/2001	9340253	16.770		
·		19.640	910.350	10539.320
07/26/2001	9340254	17.900	·	
		16.710		
		20.380		
	9340255	15.830	•	
		16.880		
		19.120		
	9340256	18.780	NOTE: NOT charged for	r
ł		18.450		
		16.730		
		18.040		
ľ	9340257	19.540		:
		19.340		
1		17.700		
	9340258	16.630		
ľ		16.110		
		16.450		
ſ	9340259	14.630		
1		12.370		
. [15.540		
Γ	9340260	16.780		
		16.290		
Ĺ		17.090		
Γ	9340261	12.970		,
Ī		17.640		
Ł		16.850		
	9340262	18.310		
		17.370		
Ŀ		18.070		
	9340263	16.110		
		16.590		
L		21.500		
	9340264	18.000		
		17.120		
		17.080		
	9340265	14.600		
-		14.150		
Γ	9340266	16.480		
L		17.790		
Γ	9340267	14.950		
· [16.800		
Γ	9340268	18.330	·-	

Date	Manifest Number	Weight (Tons)	Daily Total (Tons)	Grand Total (Tons)
07/26/2001	9340268	17.860	715.860	11255.180
07/27/2001	9340269	17.490		
ļ		21.900		
		20.740		
I		17.840		
Ī	9340270	17.150		
		18.860		
		19.310	7	
		17.890	· ·	
Ī	9340271	20.510		
		21.540	7	
		20.670	7	
		17.670	7	
Γ	9340272	17.000	7	
		17.060		
		19.270	7	
		16.990	1 .	
F	9340273	17.300	•	
}		20.850		
		19.030		
		18.550	1	
<u> </u>	9340274	18.280		
		19.880		
		19.470		
		19.210		
	9340275	23.630		·
r		20.290		
		20.510		
		17.670		
	9340276	18.190	-	
-		17.850		
		15.520	1	
		17.300		
r	9340277	20.960	7	
		25.770		
		21.770	7	
F	9340278	21.430	1	
		20.460		-
F	9340279	19.670		
		20.580	1	
		19.700	1	
	9340280	19.410	1	
		18.870	┪	

Date	Manifest Number	Weight (Tons)	Daily Total (Tons)	Grand Total (Tons)
07/27/2001	9340280	18.910		
	9340281	18.960		
		18.630		-
		18.730		
	9340282	20.670		
ļ		18.850		
		19.550		
	9340283	21.470		
		20.330		
		19.770		:
Γ	9340284	19.260		
		19.320		
		19.270	7	
Ţ	9340285	17.950		
		17.540		
Γ	9340286	17.540	7	
		17.170		
		17.960		
ľ	9340287	18.270	1	
ľ	9340306	18.750		
		19.720	7	
		18.870	1231.530	12486.710
07/30/2001	9340288	18.440		
		17.810		
		18.680	1	
		16.510	7	
	9340289	18.940		·
		17.530	,	·
}		18.900		
		17.070		
Ī	9340290	15.730		
1		18.080		
		18.220		,
	9340291	18.070		
		18.290		
İ		19.180		
		17.260		
-	9340292	17,200]	
		16.140]	
		16.450]	
		15.760	1	
F	9340293	15.740	1	
		18.270	1	

Date	Manifest Number	Weight (Tons)	Daily Total (Tons)	Grand Total (Tons)
07/30/2001	9340293	17.090		
		15.980		
	9340294	16.300	7	
		14.290	_	
		17.710	7	
	9240295	17.810		
		18.850	- ·	
		18.020	7	
Ī	9340296	15.870	·	
		16.680		
		16.890		
<u> </u>	9340297	16.550		
į.		16.840		
ļ		15.500		
}	9340298	14.090		
	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	16.140		
		15.150		
ŀ	9340299	19.950		
-	, , , , , , , , , , , , , , , , , , ,	19.310		
		19.530	·	
<u> </u>	9340300	14.570	7	
	,	17.580	7	
		17.730		
F	9340302	16.960	7	Ì
ŀ	,,,,,,,	16.680	790.340	13277.050
07/31/2001	9340303	16.740		
07/31/2001		18.230	-	
1		19.740	-	
	•	16.860	7	
F	9340304	13.290	-	
ŀ	7540504	17.430	-	
-		14.170	-	
	•	16.960	-	
<u> </u>	9340305	17.030		
	7540505	18.500	-	
		16.330	-	
		18.290		
F	9340307	19.350	-	
	75 7 0501	17.320	┪	
		17.150	-	
}	9340308	16.680	·	
	73 4 0300	19.530	-	
		18.180		
		10.100		

Date	Manifest Number	Weight (Tons)	Daily Total (Tons)	Grand Total (Tons)
07/31/2001	9340308	17.220		
. [9340309	19.160	· ·	
		18.050	7	
	•	18.370		
j	9340310	19.200	-	
		17.260	7	
l		17.610	7	
	9340311	17.930		*
		17.000		
		17.010	7	
ľ	9340312	19.480		
İ		18.060		
		18.270	1	
ľ	9340313	17.020		
ļ	20.00	15.790	-	
		16.030		
F	9340314	17.850	┪	
i	, o 1001 (14.430	"	
		18.620	7	
-	9340315	17.970		<u> </u>
	,	19.600		
		19.750	1	
F	9340316	18.230	7	
		17.080	-	
		18.720		
` 	9340317	19.980	· ·	
	30.0017	19.020	796.490	14073.540
08/01/2001	9340318	16.430		
00,01,2001	9340319	13.700	-	
	23 10312	17.370		
		18.790	-	
		20.750	-	
F	9340320	15.850	-	
İ	7540520	18.060	-	
İ		16.590	_	
	9340321	15.380		
	7570521	16.060	-	
		16.650	-	
		18.430	-	
	9340322	17.590	-	
İ	7340344	15.490	4	
			-	
-		17.580 15.670		
		13.070	1	l

Manifest Number	Weight (Tons)	Daily Total (Tons)	Grand Total (Tons)
9340323	15.680		
	14.200		
	12.560		
	17.670		
9340324	16.480		
	18.140		
	17.190		
	18.320		,
9340325	18.090		
	19.140		
	18.810		
9340326	18.330		
9340327		1	
,			
9340328		7	1
, , , , , , , , , , , , , , , , , , , ,			
9340329			
9340330			
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			
9340331			
75.0551		_	
		_	
9340332			
35.033 2		7	
9340333			
75 10335		-	
		-	
9340334			
		878.200	14951.740
		-	
		+	
		-	
		┥	
		-	
		-	
	9340323	9340323 15.680 14.200 12.560 17.670 12.560 17.670 16.480 18.140 17.190 18.320 18.810 19.140 18.810 19.340326 18.330 17.680 17.140 18.610 19.340327 16.950 16.900 18.610 17.050 16.790 16.860 16.880 17.480 17.050 18.990 19.340330 17.480 17.050 18.990 15.210 17.480 17.590 15.210 17.480 15.230 16.840 16.780 15.230 16.840 16.210 18.470 18.470 19.340334 17.010 17.320 19.340337 13.630 17.320 19.340339 17.320 17.320 17.320 17.320 17.470 17.650 17	9340323 15.680 14.200 12.560 17.670 9340324 16.480 18.140 17.190 18.320 9340325 18.090 19.140 18.810 9340326 18.330 17.680 17.140 9340327 16.950 16.900 18.610 9340328 15.670 17.050 16.790 9340329 16.860 16.880 9340330 17.480 17.050 18.990 9340331 17.590 15.210 17.480 9340332 14.810 16.780 15.230 9340333 16.840 16.210 18.470 9340334 17.010 9340335 13.520 878.200 9340336 13.840 9340337 13.630 9340338 16.820 9340339 17.320 9340340 16.470 9340341 17.650

Date	Manifest Number	Weight (Tons)	Daily Total (Tons)	Grand Total (Tons)
08/02/2001	9551645	14.930		
Ī	9551648	18.650		
	9551649	17.790		
	9551650	18.160		
	9551651	18.700	198.440	15150.180
08/03/2001	9551646	20.780		
		18.720		
1		18.040		
	9551647	15.940		
		19.790	•	
		16.690		
	9551652	20.080		
İ		19.170		
İ		20.090	1	
	9551653	17.040	7	
I		19.390	- [
ĺ		14.770	7	
	9551654	15.800	1	
		16.490		
		16.120	7	:
ŗ	9551655	15.690	7	
		17.140		
l		19.340	7	
Ī	9551656	16.780	1	
		19.860	1	
,		20.590	1	
	9551657	16.580	7	
		17.520		
		18.690		
	9551658	16.260		
	,	16.820	-	
ŀ		18.100	1	
Ţ.	9551659	17.320	•	
		14.890		
Ī	9551660	17.370		
		17.510	1 ·	•
. [9551661	15.700]	
		18.730		
ľ	9551662	17.680		
. 1		19.930	1	
F	9551663	18.620	7	
1		19.550	7	
F	9551664	15.760	1 .	•

Date	Manifest Number	Weight (Tons)	Daily Total (Tons)	Grand Total (Tons)
08/03/2001	9551664	18.940		
	9551665	17.450]	
		17.060		
	9551666	17.100		
		16.900		
	9551667	17.960		
		18.290		
	9551668	16.340		
		16.230		
		17.100		
	9551669	11.930		}
		11.750		
	9951670	16.980		
		15.770	_]	
	9551671	16.270		
		17.020		
	9551672	14.190		
		16.290		
	9551673	17.560		
		16.880		
	9551674	15.770	<u></u>	
_		20.290	_}	
	9551675	16.310		
		16.370		
	9551676	18.140		
		17.470	_	
	9551677	19.350		
		18.020	_	
	9551678	14.810	1159.880	16310.060
08/06/2001	9551679	20.290	4	
		15.300	4	
	9551680	21.380	_	
		18.910		
	9551681	19.470	_	
		16.390		
	9551682	14.170	_	
	9551683	14.190	4	
		17.020	. .	
	9551684	17.180	4	
L		17.290		
	9551685	18.300	_	
		18.030	_	
	9551686	19.260		

Date	Manifest Number	Weight (Tons)	Daily Total (Tons)	Grand Total (Tons)
08/06/2001	9551687	18.030		
		17.590		
ľ	9551688	16.470		
		19.060		
	9551689	16.100		
		19.840		
	9551690	17.110		
	9551691	19.240		
ļ	9551692	16.460		
	9551693	17.110		
		16.180		
	9551694	17.870		
		17.370		
Γ	9551695	18.620		
Ţ.	9551696	22.030		
		18.730		
	9551697	17.630		
	9551698	17.410		
	9551699	15.710		
	9551670	17.810	603.550	16913.610
08/07/2001	9551701	18.490		
	9551702	15.910		
	9551703	20.560		
	9551704	15.340		
	9551706	11.850		
	9551707	17.830		
	9551708	17.780	117.760	17031.370
08/08/2001	9551709	19.060		
		18.870		
	9551710	19.830		
ŀ		20.830		
	9551711	19.170		
F	9551712	19.300		
		15.630		
F	9551713	19.880		
	9551715	16.100	168.670	17200.040
08/09/2001	9551714	18.830		
		18.210	7	·
		18.530	-	
		18.780	-	
	9551716	18.250	1	
	5052710	20.400		

Date	Manifest Number	Weight (Tons)	Daily Total (Tons)	Grand Total (Tons)
08/09/2001	9551716	16.110		
		18.040		į
	9551717	19.150		
		20.200		
		17.910		
		18.310		
	9551718	17.950		
		19.360		
		18.410		
	9551719	17.110		
	9551720	19.180	·	
		19.960	7	
		20.300		
	9551721	18.790		
		19.210		
		20.550	1	
	9551722	19.780	7	
		19.640	7	
		18.020	7	
Ī	9551723	17.970	7	
		20.520		
		18.780		
	9551724	20.190	7	
		20.680	7	,
	9551726	19.080	588.200	17788.240
08/10/2001	9551725	16.970		
		19.170		
		17.220		
<u>[</u>	9551727	17.820		
Γ	9551728	20.010		
1.		17.320	1	
		16.910	1	
1		17.480		
Γ	9551729	17.930	1	
ľ	9551730	19.380		
İ		18.790		
		18.710		
		18.000		
	9551731	17.250		
· [9551732	19.250	1	
		15.200		
	9551733	19.830		
		14.640]	

Date	Manifest Number	Weight (Tons)	Daily Total (Tons)	Grand Total (Tons)
08/10/2001	9551733	16.100		
Γ	9551734	19.050		
		16.490		
		15.780		
Ī	9551735	20.560		
		19.620		
		18.070	•	
· [9285407	17.270		
		16.300		
	9285408	16.690		
		17.160		
Ī	9285409	18.300		
	•	20.200		
-	9285410	17.040		
		18.560		
	9285411	18.140		
		13.770		
	9285412	16.200		
		19.460	656.640	18444.880
08/13/2001	9551705	18.120		
	9285413	15.420		
	3202772	17.300	- 	
		13.340	7	
<u> </u>	9285414	15.280	1	
	,	18.590		
		14.280		
<u> </u> -	9285415	18.010		
	,200.10	18.030	-	
		17.810	7	
<u> </u>	9552255	17.030		
1	<i>y</i> 000000	17.240		
		15.350	215.800	18660.680
08/14/2001	9552256	15.030		
00/14/2001	7552250	17.740	-	
	•	16.640		
	9552257	16.630	-	
ļ	9552251	14.740	\dashv	
		17.240	-	
<u>l</u>	9552258	16.320	-	
	7334430	15.900	-	
ŀ		15.950	-	
-	9552259	15.220	-	
ļ	9334439	14.620	-	
		14.020		

Date	Manifest Number	Weight (Tons)	Daily Total (Tons)	Grand Total (Tons)
08/14/2001	9552259	17.850		
Ī	9552260	17.410		
		16.300		
		18.050		
ſ	9552261	14.620		
Ī	9552262	16.950		
		17.320		
	9552263	16.330		
	•	16.600	327.460	18988.140
08/15/2001	9552265	18.160		
	9552266	19.400	37.560	19025.700
08/16/2001	9552264	16.490		
		17.210	1	
	9552267	20.530	7	
		17.330	7	
-	9552268	15.220	7	
		17.330	7	
	9552269	12.180	7	
ŀ		17.720		
	9552270	18.810		
Γ	9552271	15.480		
1		16.650		
Γ	9552272	18.890		
		14.980		
	9552273	14.930		
	9552274	17.370		
		16.190	267.310	19293.010
08/24/2001	9552275	19.980		
		16.140		
	9552276	16.180		
	9552277	15.850		·
i		18.690		
	9552278	16.260		
	9552279	17.490		
	9552280	12.920		
		16.310	149.820	19442.830
08/27/2001	9552281	20.950		
		22.360		
		19.070		
	9552282	18.930	7	
		16.620	7	
-		20.320		

Date	Manifest Number	Weight (Tons)	Daily Total (Tons)	Grand Total (Tons)
08/27/2001	9552283	18.750		
		19.160		
Ī	9552284	18.400		
		17.550		
	9552284	18.190		
Ī	9552365	20.020		
		16.730		
		15.860]	
	9552366	16.890		
		17.370		
	9552367	16.430	-1	-
		18.650		
	9552368	18.320		
Ī	9552369	19.170		-
		17.260	387.000	19829.830
08/28/2001	9552370	18.870		
		19.740		
·	•	18.560	7	
ľ	9552371	17.110		
ļ		24.160		
ľ	9552372	16.410	7	
		18.410	7	
		15.150	7	
	9552373	20.750		
		21.250		
		17.080		
ſ	9552374	16.850		
	•	14.720	239.060	20068.890
08/29/2001	9552375	19.570	19.570	20088.460
08/30/2001	9552376	17.550		
		18.930		
		16.870		
· · · · · · · · · · · · · · · · · · ·	9552377	15.850	- ·	·
		17.030		
		14.970		
F	9552378	17.760		
The state of the s	9552379	15.490		
		15.130		
T T	9552380	16.430		
		19.850		
		20.610	1	
<u> </u>	9552381	19.770	7	

Date	Manifest Number	Weight (Tons)	Daily Total (Tons)	Grand Total (Tons)
08/30/2001	9552381	20.360		
. [18.790		
Ī	9552382	16.350		}
		17.850		
ĺ		16.680	7	
· [9552383	19.560		
		17.320		
		19.100		
	9552384	18.020		
Γ	9552385	17.010		
		10.300	417.580	20506.040
08/31/2001	9552386	18.380	18.380	20524.420
09/05/2001	9552388	16.650		
į		16.610		
		13.830		
Ī	9552389	19.510		
		18.350		
ŀ		15.950	100.900	20625.320
09/06/2001	9552390	12.400	12.400	20637.720
09/07/2001	9552391	15.250		
		19.390		
		16.850	7	
	9552392	17.900		
		14.940	7	
l		14.730		
	9552393	18.900		
	•	14.280		
		16.240		
	9552394	16.570		
		16.540		
F	9552395	17.680		
		15.460	214.730	20852.450
09/10/2001	9552396	15.050		
	9552397	15.550		
		18.240		
		16.940		
Γ	9552398	17.100		
		18.850		·
		18.600	120.330	20972.780
09/11/2001	9552399	15.450		
		14.240		
	9552400	20.900		

Date	Manifest Number	Weight (Tons)	Daily Total (Tons)	Grand Total (Tons)
09/11/2001	9552400	21.280		
	9552401	17.150		
	9552402	17.430		
•	9552403	18.840	125.290	21098.070
09/12/2001	9552404	14.770		
	9552405	14.930		
	9552406	17.530	7	
	9552407	17.160		
09/12/2001	9552408	17.380	81.770	21179.840
09/13/2001	9552409	17.480		
i		16.730	7	
		17.380		
. [9552410	17.890	7	
		17.710	7	
	9552411	19.120	_	
	9552412	18.180	7	
		18.750		
	9552413	18.960		
		21.860	7	
Ţ	9552414	17.640	7	
		18.130		
F	9552200	17.910		
		19.190]	
	9552202	16.220		
		17.530	290.680	21470.520
09/14/2001	9551096	17.560		
		19.520		
	9552201	16.950		
		15.280		
		15.740		
•	9552211	14.880		
		14.550	·	
ŀ		14.400		
	•	20.230		-
Γ	9552214	19.030		
-		18.550		
1		14.750	201.440	21671.960
09/17/2001	9551097	18.490		
		21.950		
F	9551098	16.640		
		18.040		
r	9551099	19.710		

Date	Manifest Number	Weight (Tons)	Daily Total (Tons)	Grand Total (Tons)
09/17/2001	9551099	18.440		
		19.250		
Ī	9551100	16.920		
		17.380		
Ī	9551102	16.500	7	
		23.320	7	
ľ	9551103	16.600	7	:
		17.940	7	· ·
Ī	9551107	18.030	259.210	21931.170
09/18/2001	9551101	19.270		
		20.550	7	
ľ	9551104	22.360	1	
		17.880		}
	9551105	22.380		
		18.780	7	
T T	9551106	17.880	7	
	9551107	17.480	7	
-	9551108	20.110	176.690	22107.860
09/19/2001	9551109	23.810		
		19.310	7	
Į.	9551110	20.970		
		19.810		}
ľ	9551111	19.260		
		18.420	7	
- [9551112	17.730	1 .	
·		19.730	7	
j	9551113	17.090		
į		16.620		
	9551114	18.530	7	
i		17.120		
ļ	9551115	15.870	244.270	22352.130
09/20/2001	9551116	16.590		
		17.110		
		18.320		·
	9551117	17.080		
		17.270		
		15.820	7	
	9551118	17.310		
		16.320		
F	9551119	17.600	7	
		17.710	7	
		16.270		

Date	Manifest Number	Weight (Tons)	Daily Total (Tons)	Grand Total (Tons)
09/20/2001	9551120	17.640		
		15.170		
	-	19.790		
	9551121	17.670		,
		18.480		
	9551122	17.440		
		16.460		
	9551123	15.560		
ŀ		14.390		
	9551124	19.870		
		16.130		
	9551125	19.240		
		19.390		
	9552204	18.010		1
	9552212	15.000		
. [9552213	16.880		
	9552215	17.430	481.950	22834.080
09/21/2001	9551232	19.010		
	•	16.960		
	•	17.830		
	9551233	19.710		
		17.740		
[9551234	17.820	•	
		16.870		
	9551235	14.440	,	
		15.560		
Ī	9551236	16.470	1	
		16.280	7	
	9551237	19.680	7	
		17.310		
Γ	9551238	20.390		
	9551239	16.840	7	
Γ	9552203	17.120		
		19.830		
		18.470		
	9552205	19.940		
		17.480		
		15.970	7	
ļ	9552206	18.170	1	
		19.990	7	
		18.840	428.720	23262.800
09/24/2001	9551240	17.240		
		16.990		

Manifest Number	Weight (Tons)	Daily Total (Tons)	Grand Total (Tons)
9551241	20.280		
	18.610	_	
9551242	18.620		
	17.750		
9551243	17.480		
	14.790		
9551244	19.030		
	16.890		
9551245	17.220		
	15.890		
9551246	17.020		
	17.180		•
9551247	17.800		
	20.750		
9551248	15.050	7	
	16.430		
9551249	14.630	7	
	16.000		
9551250			
		7	
9551251			
		1	
9551252		7	
9551253			
	16.270		
9551254	16.820	504.260	23767.060
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		7	
9551256		7	†
		7	
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			i
9551257			
222.	<u></u>		
9551258			
9551259			
9551260	17.800		
	9551241 9551242 9551243 9551244 9551245 9551246 9551247 9551248 9551249 9551250 9551251 9551252 9551253 9551254 9551255	9551241 20.280 18.610 18.620 17.750 17.480 14.790 9551243 17.480 14.790 9551244 19.030 16.890 9551245 17.220 15.890 9551246 17.020 17.180 20.750 9551247 17.800 20.750 9551248 15.050 16.430 9551249 14.630 16.890 17.160 9551250 16.890 17.160 9551251 17.210 19.940 9551252 17.780 17.440 9551253 19.100 16.270 9551254 16.820 9551255 18.270 11.960 19.090 9551256 16.500 16.780 12.570 9551257 14.390 17.390 12.170 9551258 16.910 19.030 19.730 16.300	9551241 20.280 18.610 9551242 18.620 17.750 9551243 17.480 14.790 9551244 19.030 16.890 9551245 17.220 15.890 9551246 17.020 17.180 9551247 17.800 20.750 9551248 15.050 16.430 9551249 14.630 16.000 9551250 16.890 17.160 9551251 17.210 19.940 9551252 17.780 17.440 9551253 19.100 16.270 9551254 16.820 9551255 18.270 11.960 19.090 9551256 16.890 17.160 19.090 9551257 14.390 12.570 9551258 16.910 19.030 9551258 16.910 19.030 9551259 16.600 19.730 16.300

Date	Manifest Number	Weight (Tons)	Daily Total (Tons)	Grand Total (Tons)
09/25/2001	9551260	18.010		
		13.190		
	9551261	15.680		
		16.830		
		12.790		
ſ	9551390	17.000		
-		15.990		
Ī	9551391	18.470		
		21.850		
		15.560		
ľ	9551392	15.910	442.860	24209.920
09/26/2001	9551393	19.000		
Ī	9551394	16.300		
ſ	9551395	13.380		
***************************************	•	14.130	62.810	24272.730
09/27/2001	9551396	15.120		
f	9551397	18.760		
Ī	9551398	18.170	·	·
		18.970		
		15.940		:
	9551399	18.290		
		18.040	123.290	24396.020
09/28/2001	9551400	17.470		
		19.140		
ļ		18.660		
	9551401	17.520		
		18.760		
		12.680		
Ī	9551402	18.420		·
		18.650	7	
		21.450		
ľ	9551403	18.440	7	,
		18.430		
		15.610	1 .	
ľ	9551404	18.210		
		13.380		
ļ	9551405	16.070		
		16.670		
•	9551406	16.160	· .	
ŀ	9551407	17.810	7	
	9551409	18.380	331.910	24727.930
10/01/2001	9551411	17.970		

Date	Manifest Number	Weight (Tons)	Daily Total (Tons)	Grand Total (Tons)
10/01/2001	9551411	17.170		
	9551412	17.300		
ļ		15.860		
ļ		17.210		·
İ	9551413	19.990		
		21.860		
		18.770		
	9551414	18.760		
		17.230		
	•	15.680		
	9551415	19.940		
		20.900		
	9551416	17.060	\neg	
		20.940		
		15.730	292.370	25020.300
Special Waste Grand Total:				25020.300

Table F-2 **Hazardous Waste Disposal Quantities Remedial Action** Peoples Gas - Rogers Park Pond and Main Parcels

Date	Manifest Number	Weight (Pounds)	Daily Total (Pounds)	Grand Total (Pounds)
08/06/2001	9314130	36,380		
Γ	9314131	39,800	-	
ſ	9314132	40,640		
Γ	9314133	44,120		
Ī	9314134	42,160		
Ī	9314135	44,740		
	9314136	39,040		:
ľ	9314137	40,900		
Ī	9314138	39,180		,
Ī	9314139	45,260		
	9314140	42,760	454,980	454,980
08/07/2001	9314141	42,020		
	9314142	39,700		
	9314143	45,320		
ļ-"	9314144	42,240		
F	9314145	34,780		
	9314146	37,740		
ļ	9314147	49,800	291,600	746,580
08/08/2001	9314148	63,580		
ľ	9314149	43,440		
T	9314150	40,240		
f	9314151	45,500		
ľ	9314152	54,100		
Ī	9314153	43,260		
ľ	9314154	41,000		
ľ	9314155	38,400		
	9314156	46,320		
ľ	9314157	34,580		
<u> </u>	9314158	41,360		
<u>-</u>	9314159	45,380		
-	9314160	45,620	582,780	1,329,360
08/09/2001	9314195	43,840	-	
	9314196	42,260	·	
-	9314197	70,060		
<u> </u>	9314198	38,200		
ļ-	9314199	48,480	242,840	1,572,200

08/20/2001	9314200	30,480	•	
	9314201	25,040	55,520	55,520
08/21/2001	9314202	25,240		
	9314203	38,580	63,820	119,340

Date	Manifest Number	Weight (Pounds)	Daily Total (Pounds)	Grand Total (Pounds)	
08/22/2001	9314370	34,460			
-	9314371	38,180	72,640	191,980	
08/23/2001	9314372	41,160	41,160	233,140	
08/24/2001	9314373	29,240			
Ī	9314380	43,534	72,774	305,914	
08/27/2001	9314381	41,340	41,340	347,254	
08/28/2001	9314382	31,300			
	9314383	35,900			
	9314384	29,900	97,100	444,354	
08/29/2001	9314385	26,060	26,060	470,414	
08/31/2001	9314376	41,660			
Ī	9314377	24,880	66,540	536,954	
08/30/2001	9314386	29,140			
	9314387	30,980	60,120	597,074	
09/06/2001	9314378	33,500	33,500	630,574	
09/07/2001	9314379	35,520			
	9312294	30,560	66,080	696,654	
09/12/2001	9312295	29,860	29,860	726,514	
09/13/2001	9312296	30,660	30,660	701,654 2,273,854	
Hazardone	Waste Grand Total	Hazardous Waste Grand Total:			

Table F-3
Hazardous Liquid Waste Disposal Quantities
Remedial Action
Peoples Gas - Rogers Park Pond and Main Parcels

Date	Manifest Number	Weight (Gallons)	Daily Total (Gallons)	Grand Total (Gallons)
08/03/2001	9352976*	5,300		
	9352977*	5,000		•
	9352978*	5,000		
	9352979*	5,100	20,400	20,400
08/06/2001	9352981*	5,177	,	
	9352983*	5,000	10,177	30,577
08/07/2001	9352982*	5,000	·	
Ī	9352987*	5,200		
	9352991*	5,200	15,400	45,977
08/08/2001	8778384*	5,300		"
Ī	9352989*	5,490		
	9352990*	5,240	16,030	62,007
08/09/2001	9352988*	5,240	5,240	67,247
08/15/2001	10025005	2,441	2,441	69,688
08/17/2001	9630903	1,500	1,500	71,188
08/22/2001	9273073	3,000	3,000	74,188
08/23/2001	10025034	5,303	5,303	79,491
08/24/2001	10025083	5,043	5,043	84,534
08/29/2001	10025094	5,203	5,203	89,737
09/10/2001	10025141	2,000		
	10025142	5,300	7,300	97,037
I azardone Lie	quid Waste Grand Total	-		97,037

^{*} Note: Initially manifest listed incorrect USEPA and Illinois Generator Identification Numbers. The manifests were corrected, and corrected copies were sent to the Illinois EPA Division of Land Pollution Control, the transporter, and the disposal facility on October 31, 2001.

APPENDIX G SAMPLE VALIDATION MEMORANDUM AND ANALYTICAL DATA SOIL SAMPLE DATA EVALUATION MEMORANDA ROGERS PARK MAIN MGP SITE

BURNS & McDONNELL

Client:

Peoples Gas

Site:

Rogers Park Pond Parcel

Project #: 27194

File No.: I.7

Prepared By: Kim Nichols/Scott Dawson

August 10, 2001/

September 5, 2001/September 19, 2001 Checked By: Christy Barry/Kim Nichols

Date: August 13, 2001/

September 10, 2001

Title:

Data Validation of Confirmation Soil Samples

Collected from June 21 to September 21, 2001

PURPOSE

The purpose of this document is to present the evaluation and validation of soil sampling analytical results.

VALIDATION CRITERIA

The evaluation and validation consisted of the following:

- Checked analytical holding times.
- Checked surrogate recoveries.
- Reviewed laboratory blank analyses.
- Reviewed laboratory control standards.
- Reviewed laboratory annotations.

SAMPLING EFFORT

Soil samples were collected at the Peoples Gas Rogers Park Pond Parcel in Chicago, Illinois from June 21 through June 29, 2001 and July 30-September 21, 2001. Soil samples were taken at specific confirmation locations during site remediation activities.

LABORATORY

Samples were analyzed and validated by STAT Analysis Corporation of Chicago, Illinois in accordance with Illinois Site Remediation Program analytical data reduction and validation guidelines.

CONCLUSIONS

Laboratory data have been reviewed and are acceptable for use with qualification. STAT Analysis Corporation, performed laboratory validation and determined that all analytical results were usable. In cases where laboratory standards were not met, data qualification was provided. Based on the provided information, Burns & McDonnell performed further evaluation and validation, determining that the overall quality of the analytical results was good; however due to minor analytical quality control problems such as poor surrogate recovery and laboratory control standards recovery, some resultant values were flagged estimated "J" or "UJ".

REFERENCES

The following reference documents were used:

- (1) Illinois Administrative Code, 1998. *Site Remediation Program*, Title 35: Environmental Protection, Subtitle G: Waste Disposal, Chapter I: Pollution Control Board, Part 740.
- (2) United States Environmental Protection Agency (USEPA), 1994. Contract Laboratory Program National Functional Guidelines for Organic Data Review, February.
- (3) USEPA, 1994. Contract Laboratory Program National Functional Guidelines for Inorganic Data Review, February.
- (4) USEPA, 1998. Test Methods for Evaluating Solid Wastes, Physical/Chemical Methods, EPA Publication No. SW-846, [Third Edition (September 1986), as amended by Updates I (July 1992), II (September 1994), IIA (August 1993), IIB (January 1995), III (December 1996), IVA (January 1998)].

SAMPLE INFORMATION

Table 1 presents sample numbers and analyses requested. Table 2 lists the methods used to analyze the soil samples.

HOLDING TIME EVALUATION

Table 3 presents the analytical holding times that were used to evaluate and validate the extractions and analyses performed. All sample extractions and analyses were performed within the holding time criteria; therefore, no qualification was necessary.

SURROGATE RECOVERY EVALUATION

Surrogate recoveries were above the acceptable laboratory limits for VOCs for RPM-CST-02U, RPM-CSH-02L, RPM-CSH-03L, RPM-CSH-04L, and RPM-B-Pipe; but all VOCs were non-detect; therefore, no qualification was necessary. Surrogate recovery was below acceptable laboratory limits for Toluene in RPM-CSH-07U-02, so it was qualified estimated, non-detect UJ.

LABORATORY BLANK ANALYSIS EVALUATION

Laboratory blanks were prepared and run for this sampling event. All laboratory blanks were non-detect; therefore, no qualification was necessary.

LABORATORY CONTROL STANDARDS EVALUATION

Laboratory control standards (LCS) were prepared and run for this sampling event. The total beryllium analysis laboratory control standard was below the acceptable limits for the following samples: RPP-CS01-001, RPP-CS04-001, RPP-CS05-001, RPP-CS07-001, and RPP-CS08-001. The SPLP beryllium analysis laboratory control standard was outside the acceptable limits for the following samples: RPP-CS01-001, RPP-CS04-001, RPP-CS05-001, RPP-CS07-001, and RPP-CS08-001. Therefore, all detected total and SPLP beryllium results for the aforementioned samples were qualified estimated "J" and all non-detect results were qualified estimated "UJ".

LABORATORY ANNOTATION REVIEW

A review of the STAT Analysis Corporation laboratory annotation indicates that the overall quality of the analytical results is acceptable.

	Table 1	
List of Sample Numbers and Analyses		
Sample Number	Analyses	
RPP-CS01-001	Polynuclear Aromatic Hydrocarbons (PAHs), Total and Synthetic Precipitation Leaching Procedure (SPLP) Lead,	
RPP-CS02-001	PAHs, Total and SPLP Lead, Chromium and Beryllium	
RPP-CS03-001	PAHs, Total and SPLP Lead, Chromium and Beryllium	
RPP-CS04-001	PAHs, Total and SPLP Lead, Chromium and Beryllium	
RPP-CS04-002	PAHs	
RPP-CS04-003	PAHs	
RPP-CS04-004	PAHs	
RPP-CS05-001	PAHs, Total and SPLP Lead, Chromium and Beryllium	
RPP-CS06-001	PAHs, Total and SPLP Lead, Chromium and Beryllium	
RPP-CS07-001	PAHs, Total and SPLP Lead, Chromium and Beryllium	
RPP-CS07-002	PAHs	
RPP-CS07-003	PAHs	
RPP-CS08-001	PAHs, Total and SPLP Lead, Chromium and Beryllium	
RPP-CS08-002	PAHs	
RPP-CS08-003	PAHs	
RPP-CS09-001	PAHs, Total and SPLP Lead, Chromium and Beryllium	
RPP-CS10-001	PAHs, Total and SPLP Lead, Chromium and Beryllium	
RPM-CSH-01U	BTEX, Styrene, PAHs, Total and SPLP Lead	

Table 1				
I	List of Sample Numbers and Analyses			
RPM-CSH-01L	BTEX, Styrene, PAHs, Total and SPLP Lead			
RPM-CSH-02U	BTEX, Styrene, PAHs, Total and SPLP Lead			
RPM-CSH-02L	BTEX, Styrene, PAHs, Total and SPLP Lead			
RPM-CSH-03U	BTEX, Styrene, PAHs, Total and SPLP Lead			
RPM-CSH-03L	BTEX, Styrene, PAHs, Total and SPLP Lead			
RPM-CSH-04U	BTEX, Styrene, PAHs, Total and SPLP Lead			
RPM-CSH-04L	BTEX, Styrene, PAHs, Total and SPLP Lead			
RPM-CSH-05U	BTEX, Styrene, PAHs, Total and SPLP Lead			
RPM-CSH-05L	BTEX, Styrene, PAHs, Total and SPLP Lead			
RPM-CSH-06U	BTEX, Styrene, PAHs, Total and SPLP Lead			
RPM-CSH-06U-02	BTEX, PAHs			
RPM-CSH-06L	BTEX, Styrene, PAHs, Total and SPLP Lead			
RPM-CSH-07U	BTEX, Styrene, PAHs, Total and SPLP Lead			
RPM-CSH-07U-02	BTEX, PAHs			
RPM-CSH-07L	BTEX, Styrene, PAHs, Total and SPLP Lead			
RPM-CSH-08U	BTEX, Styrene, PAHs, Total and SPLP Lead			
RPM-CSH-08L	BTEX, Styrene, PAHs, Total and SPLP Lead			
RPM-CSH-09	BTEX, Styrene, PAHs, Total and SPLP Lead			
RPM-CST-01U	BTEX, Styrene, PAHs, Total and SPLP Lead			
RPM-CST-01L	BTEX, Styrene, PAHs, Total and SPLP Lead			
RPM-CST-02U	BTEX, Styrene, PAHs, Total and SPLP Lead			
RPM-CST-02L	BTEX, Styrene, PAHs, Total and SPLP Lead			
RPM-CST-03U	BTEX, Styrene, PAHs, Total and SPLP Lead			

	Table 1				
	List of Sample Numbers and Analyses				
RPM-CST-03L	BTEX, Styrene, PAHs, Total and SPLP Lead				
RPM-CST-04U	BTEX, Styrene, PAHs, Total and SPLP Lead				
RPM-CST-04L	BTEX, Styrene, PAHs, Total and SPLP Lead				
RPM-CST-05	BTEX, Styrene, PAHs, Total and SPLP Lead				
RPM-N-PIPE	BTEX, Styrene, PAHs, Total and SPLP Lead				
RPM-S-PIPE	BTEX, Styrene, PAHs, Total and SPLP Lead				
RPM-B-PIPE	BTEX, Styrene, PAHs, Total and SPLP Lead				
RPM-CS03-01	Total Lead and SPLP Lead				

Table 2 Analytical Me	
Parameter	Analytical Method
BTEX	8260B
PAHs	8270C ¹
RCRA metals	60201
SPLP lead	1312/60201

Notes:

⁽¹⁾ U.S. EPA 1998 (2) ASTM 2001

	Table 3 Analytical Holding Times					
Analyses	Holding Time From Sample Collection ⁽¹⁾					
BTEX	14 days					
PAHs	14 days to extraction, 40 days from extraction to analysis					
RCRA metals	6 months					
SPLP metals	180 days to Method 1312 extraction, 180 days from extraction to analysis					

Note: (1) USEPA 1998 and Test America 2000.

SOIL ANALYTICAL RESULTS DATA SHEETS ROGERS PARK MAIN MGP SITE

STAT Analysis Corporation

2201 West Campbell Park Drive Chicago, Illinois 60612-3501 Tel: 312.733.0551 Fax: 312.733.2386 e-mail address: STATinfo@STATAnalysis.com AIHA accredited 10248, NVLAP accredited 101202-0.

June 27, 2001

Margaret Kelly
Burns & McDonnell
2601 W. 22nd Street
Oak Brook, Illinois 60523-1229

Phone: (630) 990-0300 Fax: (630) 990-0301

Re: Project Number/Name:

27193-4.07, Rogers Park

STAT Project Number: 702073

STAT Sample Nos.: 918895 - 918903

Date Received:

June 20, 2001

Dear Ms. Kelly:

Enclosed are the analytical results for the above referenced project. The samples were analyzed as per the enclosed chain of custody.

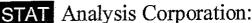
All analyses were performed in accordance with methods from the USEPA publication <u>Test Methods</u> for Evaluating Solid Wastes, <u>Physical/Chemical Methods</u>, SW-846, 3rd Edition, December, 1996. Specific method references are listed on the analytical report. Where applicable, results are expressed on a dry weight basis as per method protocols.

All analyses were performed within the established holding times, and all quality control criteria, as outlined in the method have been met. QA/QC documentation and raw data will remain on file for future reference.

Thank you for the opportunity to serve you and we look forward to working with you in the future. If you have any questions about the enclosed materials, please call me at 312-733-0551.

Sincerely,

Craig Chawla
Project Manager



STAT Analysis Corporation:
2201 West Campbell Park Drive, Chicago, Illinois 60612-3547 Tel: 312.733.0551; Fax: 312.733.2386; e-mail address: STATinfo@STATAnalysis.com



Analytical Report

Client:

Burns & McDonnell

Project ID:

27194-4.07, Rogers Park

Sample Number:

1, RPM-CS01-001

STAT Project No.: 702073

STAT Sample No.: 918895

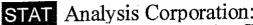
Date Received: 6/21/01

Date Taken: 6/21/01

Time Taken: AM

Date Reported: 6/27/01

Analyte	• • •	Detection Limit	Result	Units
Solids, Total	·		82.06	%
- 1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1	c Hydrocarbor 21/01 21/01	ns Method 8270C	,	
Naphthalene		0.025	< 0.025	mg/Kg
Acenapthylene		0.025	< 0.025	mg/Kg
Acenaphthene		0.025	< 0.025	mg/Kg
Fluorene		0.025	< 0.025	mg/Kg
Phenanthrene		0.025	0.045	mg/Kg
Anthracene		0.025	< 0.025	mg/Kg
Fluoranthene		0.025	0.050	mg/Kg
Pyrene		0.025	0.039	mg/Kg
Chrysene		0.025	0.029	mg/Kg
Benzo[a]anthracene	_	0.025	0.027	mg/Kg
Benzo[b]fluoranthene		0.025	< 0.025	mg/Kg
Benzo[k]fluoranthene		0.025	< 0.025	mg/Kg
Benzo[a]pyrene	•	0.025	< 0.025	mg/Kg
Indeno[1,2,3-cd]pyrene	e ·	0.025	< 0.025	mg/Kg
Dibenz[a,h]anthracene		0.025	< 0.025	mg/Kg
Benzo[g,h,i]perylene		0.025	< 0.025	mg/Kg
Total Lead Method 6	020			
Analysis Date: 6/2	23/01	•		
Lead	•	0.500	22.7	mg/Kg
SPLP Lead Method 1	312/6020	•		
Analysis Date: 6/2	23/01			
Lead		0.005	0.017	mg/L



STAT Analysis Corporation:
2201 West Campbell Park Drive, Chicago, Illinois 60612-3547 Tel: 312.733.0551; Fax: 312.733.2386; e-mail address: STATinfo@STATAnalysis.com



Analytical Report

Client:

Burns & McDonnell

Project ID:

27194-4.07, Rogers Park

Sample Number:

2, RPM-CS02-001

STAT Project No.: 702073

STAT Sample No.: 918896

Date Received: 6/21/01

Date Taken: 6/21/01

Time Taken: AM

Date Reported: 6/27/01

Analyte	. •	Detection Limit	Result	Units
Solids, Total			80.53	%
Polynuclear Aron Preparation Date: Analysis Date:	6/21/01 6/21/01	ons Method 8270C		
Naphthalene Acenapthylene Acenaphthene Fluorene Phenanthrene Anthracene Fluoranthene Pyrene Chrysene Benzo[a]anthracen Benzo[b]fluoranth Benzo[k]fluoranth Benzo[a]pyrene Indeno[1,2,3-cd]py Dibenz[a,h]anthrac Benzo[g,h,i]peryle	ene ene yrene cene	0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025	< 0.025 < 0.025 < 0.025 < 0.025 0.222 0.065 0.336 0.280 0.245 0.228 0.104 0.183 0.201 0.119 0.046 0.108	mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg
Total Lead Metho Analysis Date: Lead	od 6020 6/23/01	0.500	114	mg/Kg
SPLP Lead Methoral Analysis Date: Lead	od 1312/6020 6/23/01	0.005	0.022	mg/L

STAT Analysis Corporation

Project Name:

Client Sample

.. No..

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7

Samplers:

Client Name:

Allth
Allth
Environment Lead
ACCREDITED
LABORATORY

1. LINGE Phone Number: (630) 990 0300 1. P. S. S. J. Turnaround Time: 9 (89cc 9(802 3188316 2 (80 X 91881C (01,3) is をしたり am/pm 983 918817 Lab No. Results Needed: Nº. 752073 Contact Information: ō Fax Number: Remarks Other Contact: TYPE OF ANALYSES No. 2201 West Campbell Park Drive, Chicago, Illinois 60612-3547 Phone. (312) 733-0551 Fax: (312) 733-2386 Samples Leaking Refrigerated (Temp: 103 e-mail address: STATInfo@STATAnalysis.com AIHA accredited 10248, NVLAP accredited 101202-0 - Container OF CHAIN OF CUSTODY RECORD 2/402 Containers 201/2 <u>8</u> No. of Date/Time: (3/21/0) マスタ Grab Comp. Date/Time: Date/Time: Date/Time: Date/Time: 114 Z 7.7 1 20 Taken Time. 6/2/E KEDZIE 1/2//01 4/21/01 121hi 10/12/0 Mah 6/4/4 Date Taken MCDONNEL O ChOC PARK 子の子 0 00 001 ට ව 0 0 700 C302-00 - 6501-00 Sample Description • 503 × ートいたて -CS 08 C 504 ÷ 6500 CS0/ 40SJ HOUR ROGERS S057 -Ö CSO TASS SURMS y: (Signature) RPMį 2000 Relinquished by: (Signature) Relinquished by: (Signature) RUSI Relinquished by: (Signature) NON Q アプク O O O DDD RPE Received by: (Signature) 7,7 .ocation/Address: Project Number:

O

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Received for

2C SOIL PNA SURROGATE RECOVERY

Lab Name:	STAT	Analysis		Contract: Burns&McDonnell
Project No :	702073	Site:	Location:	Group:

	Sample No.	S1	S2	S3	Total Out
01	PNA Soil Blank-2 06/21/01	37	37	44	0
02	PNA Soil LCS-2 06/21/01	37	36	42	0
03	RPM-CS01-001	29	33	40	0
04	RPM-CS02-001	40	47	59	0
05	RPE-CS03-001	39	40	42	0
06	RPE-CS04-001	17*	35	58	1
07	RPP-CS01-001	23	25*	31	1
08	RPP-CS04-001	60	65	70	0
09	RPP-CS05-001	30	29*	34	1
10	RPP-CS07-001	26	34	61	0
11	RPP-CS08-001	30	31	55	0
12	918797	37	38	43	0
13	918797MS	34	36	63	0
$\frac{13}{14}$	918797MSD	48	46	58	0

S1 (NBZ) = d5-Nitrobenzene S2 (FBP) = 2-Fluorobiphenyl S3 (TPH) = Terphenyl-d14 QC LIMITS (23-120) (30-115) (18-137)

Column to be used to flag recovery values

* Values outside of contract required QC limits

D Surrogate Diluted out

SEMIVOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

SBLKSOI

Lab Name: STAT Analysis

Contract: Burns&McDonnell

Lab Code:

Case No.:

SDG No.:

Lab File ID:

06220111.D

Lab Sample ID: PNA BLANK

Instrument ID:

GC/MS-SVOC-2

Date Extracted:

SAS No.:

06/21/01

Matrix: (soil/water)

SOIL

Date Analyzed:

06/22/01

Level: (low/med)

LOW

Time Analyzed:

14:36

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

	EPA	LAB	LAB	DATE
	SAMPLE NO.	SAMPLE ID	FILE ID	ANALYZED
01	PNA SOIL LCS-2	PNASLCS062101	06220112.D	06/22/01
	06/21/01			
02	RPM-CS01-001	918895	06250139.D	06/25/01
03	RPM-CS02-001	918896	06210125.D	06/21/01
04	RPE-CS03-001	918897	06210126.D	06/21/01
05	RPE-CS04-001	918898	06250140.D	06/25/01
06	RPE-CS01-001	918899	06250141.D	06/25/01
07	RPP-CS04-001	918900	06210129.D	06/21/01
08	RPP-CS05-001	918901	. 06220107.D	06/22/01
09	RPP-CS07-001	918902	06210131.D	06/21/01
10	RPP-CS08-001	918903	06220108.D	06/22/01
11	918797	918797	06210133.D	06/21/01
12	918797MS	918797MS	06210134.D	06/21/01
13	918797MSD	918797MSD	06210135.D	06/21/01

COMMENTS:		•	
•	1		

3 C SOIL POLYNUCLEAR AROMATIC LABORATORY CONTROL SAMPLE RECOVERY

Lab Name:	STAT Analysis Con	ooration	Contract:	Burns & McDo	nnell	
Lab Code:	702073	Case No.:	SAS No.:		SDG No.:	
LCS - Sample ID:		SBLNK -2 062101				

Compound	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC #	QC LIMITS REC
Napthalene	167	0	61	37	30-140
Acenaphthylene	167	0	71	42	30-140
Acenaphthene	167	0	56	34	31-137
Fluorene	167	0	68	41	30-140
Phenanthrene	167	0	65	39	30-140
Anthracene	167	0	72	43	30-140
Fluoranthene	167	0	72	43	30-140
Pyrene	167	0	69	41	35-142
Benzo(a)anthracene	167	0	93	56	30-140
Chrysene	167	0	94	56	30-140
Benzo(b)fluoranthene	167	0	87	52	30-140
Benzo(k)fluoranthene	167	0	92	55	30-140
Benzo(a)pyrene	167 .	0	85	51	30-140
Ideno(1,2,3-cd)pyrene	167	0	104	63	30-140
Dibenz(a,h)anthrancene	167	0	99	59	30-140
Benzo(g,h,i) perylene	167	0	95	57	30-140

# Column to be used to flag * Values outside of QC limit					
Spike Recovery:	0 out of 16 outside limits	•			
COMMENTS:			 		

OLM03.0

3 C SOIL POLYNUCLEAR AROMATIC MATRIX SPIKE/ MATIX SPIKE DUPLICATE RECOVERY

Lab Name: Stat An	alysis		Contract: Bu	ms & McDonnell	
Lab Code:	702073	Case No.:	SAS No.:	SDG No.:	
Matrix Spike - Sam	ple ID: 9	18797			

	SPIKE	SAMPLE	MS	MS	QC
	ADDED	CONCENTRATION	CONCENTRATION	%	LIMITS
Compound	(ug/Kg)	(ug/Kg)	(ug/Kg)	REC #	REC
Napthalene	167	33	72	23 *	30-140
Acenaphthylene	167	. 11	68	35	30-140
Acenaphthene	167	9	63	32	31-137
Fluorene	167	6	62	34	30-140
Phenanthrene	167	192	250	35	30-140
Anthracene	167	14	103	53	30-140
Fluoranthene	167	34	116	49	30-140
Pyrene	167	43	121	47	35-142
Benzo(a)anthracene	167	28	136	65	30-140
Chrysene	167	31	134	62	30-140
Benzo(b)fluoranthene	167	. 12	64	31	30-140
Benzo(k)fluoranthene	167	10	92	49	30-140
Benzo(a)pyrene	167	11	79	41	30-140
Ideno(1,2,3-cd)pyrene	167	7	96	53	30-140
Dibenz(a,h)anthrancene	167	4	89	51	30-140
Benzo(g.h.i) perylene	167	7	85	47	30-140

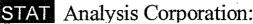
	SPIKE ADDED	MSD CONCENTRATION	MSD %	%			IMITS
Compound	(ug/Kg)	(ug/Kg)	REC #	RPD	#	RPD	REC
Napthalene	167	98	39	49	1	25	30-140
Acenaphthylene	167	73	37	7		25	30-140
Acenaphthene	167	68	35	9	_	25	31-137
Fluorene	167	67	36	8	_	25	30-140
Phenanthrene	167	198	4 *	160	<u>•</u>]	25	30-140
Anthracene	167	99	51	4		25	30-140
Fluoranthene	167	104	42	16		25	30-140
Pyrene	167	109	40	16]	25	35-142
Benzo(a)anthracene	167	125	58	11		25	30-140
Chrysene	167	122	54	13		25	30-140
Benzo(b)fluoranthene	167	74	37	18] .	25	30-140
Benzo(k)fluoranthene	167	81	42	25		25	30-140
Benzo(a)pyrene	<i>⇒</i> 167	72	36	11		25	30-140
Ideno(1,2,3-cd)pyrene	167	85	47	12		25	30-140
Dibenz(a,h)anthrancene	167	79	45	11		25	30-140
Benzo(g,h,i) perylene	167	76	41	12		25	30-140

* Values outside of QC limits

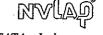
RPD: Spike Recovery:

2 out of 16 outside limits 2 out of 32 outside limits

COMMENTS:



2201 West Campbell Park Drive, Chicago, Illinois 60612-3547 Tel: 312.733.0551; Fax: 312.733.2386; e-mail address: STATinfo@STATAnalysis.com







INORGANIC Initial Batch QC

Lab Name:

STAT Analysis Corporation

Contract: Burns & McDonnell

Project No.:

27194-4.07

Instrument: ICPMS

Batch No .:

702073

Associated Samples:

918895 - 918903

	Т	.CS 1 (µg/I)	Т	CS 2 (μg/I	.)			Preparation Blank	n
Analyte	True	Found	%R	True	Found	%R	RPD	\mathbf{C}	C	M
Beryllium	500	395	78.9	500	390	78.0	1.15		0.03	MS
Chromium	500	481	96.1	500	496	99.1	3.07		0.45	MS
Lead	500	489	97.8	500	485	97.0	0.86		0.36	MS

INORGANIC Matrix Spike and Matrix Spike Dupliacte Recovery Form

Lab Name:

STAT Analysis Corporation

Instrument: ICPMS

Batch No.: Proint No.: 702073

27194-4.07

Sample No.: 918895

Matrix (soil/water):

Soil

Sample Spike No.: 918895 MS

Concentration Units:

μg/L

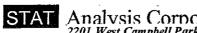
Sample Spike Duplicate No.: 918895 MSD

Associated Samples:

918895 - 918903

	Spike	Spike										
	Added	Added	Sample			-						
Analyte	MS	MSD	Result	MS	%R	C	MSD	%R	C	RPD	Q	M
3eryllium	500	500	15.4	393	75.5		440	84.9		11.3		MS
Chromium	500	500	425	724	59.8	M	867	88.4		18.0		MS
_ead	500	500	481	802	64.2	M	969	97.6	·	18.9		MS

M = Matrix Interference



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INORGANIC Initial Batch QC

Lab Name:

STAT Analysis Corporation

Contract: Burns & McDonnell

Project No.:

27194-4.07

Instrument: ICPMS

Batch No .:

702073

Associated Samples:

918895-918903

		LCS 1 (µg	/L)	LCS	S 2 (μg/L)	RPD	С	Preparation Blank	
Beryllium	500	387	77.4	500	373	74.6	3.6		0.00	MS
Chromium	500	444	88.7	500	423	84.5	4.8	-	0.05	MS
Lead	500	453	90.5	500	451	90.3	0.2		0.36	MS

INORGANIC Matrix Spike and Matrix Spike Dupliacte Recovery Form

Lab Name:

STAT Analysis Corporation

Instrument: ICPMS

Batch No .:

702073 27194-4.07 **ICPMS**

Project No.: Matrix (soil/water):

918895 Sample No.:

SPLP

Sample Spike No.: 918895MS

Concentration Units:

mg/L

Sample Spike Duplicate No.: 918895MSD

Associated Samples:

918895-918903

	Spike Added	Spike Added	Sample			-	1.50		C			
Analyte	MS	MSD	Result	MS	%R	С	MSD	%R	С	RPD	Q	M
Beryllium	500	500	7.06	397	78.0		389	76.4		2.1		MS
Chromium	500	500	21.3	469	89.6		445	84.7		5.3		MS
Lead	500	500	16.6	496	95:9		478	92.4		3.6		MS

STAT Analysis Corporation

2201 West Campbell Park Drive Chicago, Illinois 60612-3501 Tel: 312.733.0551 Fax: 312.733.2386 e-mail address: STATinfo@STATAnalysis.com AIHA accredited 10248, NVLAP accredited 101202-0.

June 27, 2001

Margaret Kelly Burns & McDonnell 2601 W. 22nd Street Oak Brook, Illinois 60523-1229

Phone: (630) 990-0300 (630) 990-0301 Fax:

Re:

Project Number/Name:

27194-4.07, Rogers Park Sub Shop

STAT Project Number:

702099

STAT Sample Nos.:

919027 - 919030

Date Received:

June 25, 2001

Dear Ms. Kelly:

Enclosed are the analytical results for the above referenced project. The samples were analyzed as per the enclosed chain of custody.

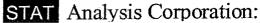
All analyses were performed in accordance with methods from the USEPA publication Test Methods for Evaluating Solid Wastes, Physical/Chemical Methods, SW-846, 3rd Edition, December, 1996. Specific method references are listed on the analytical report. Results are expressed on a dry weight basis as per method protocols.

All analyses were performed within the established holding times, and all quality control criteria, as outlined in the method have been met. QA/QC documentation and raw data will remain on file for future reference.

Thank you for the opportunity to serve you and we look forward to working with you in the future. If you have any questions about the enclosed materials, please call me at 312-733-0551.

Sincerely,

Craig Chawla Project Manager



MV(AP) & 2201 West Campbell Park Drive, Chicago, Illinois 60612-3547 Tel: 312.733.0551; Fax: 312.733.2386; e-mail address: STATinfo@STATAnalysis.com



Analytical Report

Client:

Burns & McDonnell

Project ID:

27194-4.07, Rogers Park Sub Shop

Sample Number:

STAT Project No.: 702099

STAT Sample No.: 919028

2, RPM-CS02-002

Date Received: 6/25/01

Date Taken: 6/25/01

Time Taken: AM

Date Reported: 6/27/01

Analyte		Detection Limit	Result	Units
Solids, Total	. *		83.14	%
Polynuclear Arom Preparation Date: Analysis Date:	atic Hydrocarb 6/26/01 6/26/01	ons Method 8270C		
Naphthalene Acenapthylene Acenaphthene Fluorene		0.025 0.025 0.025 0.025	< 0.025 < 0.025 0.030 0.051	mg/Kg mg/Kg mg/Kg mg/Kg
Phenanthrene Anthracene Fluoranthene		0.025 0.025 0.025	0.689 0.191 1.55	mg/Kg mg/Kg mg/Kg
Pyrene Chrysene Benzo[a]anthracene		0.025 0.025 0.025 0.025	1.24 0.740 0.642 0.453	mg/Kg mg/Kg mg/Kg mg/Kg
Benzo[b]fluoranthe Benzo[k]fluoranthe Benzo[a]pyrene Indeno[1,2,3-cd]pyr	ne	0.025 0.025 0.025 0.025	0.469 0.467 0.209	mg/Kg mg/Kg mg/Kg
Dibenz[a,h]anthrace Benzo[g,h,i]perylen	ene	0.025 0.025 0.025	0.092 0.180	mg/Kg mg/Kg

STAT lalysis Corporation

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AIHA AIHA AIHA ANGUER AIGUITHOU ANGUER ACCREDITED NO. 700099

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Project Number:		4-4,00					ı											
Project Name:	ne: RCCSIENS	S PARK SOIS SHOP	H	À					/								Turnaround Time:	**
Location/Address:	ddress: 1210 39	N. Kenzue						`									(days)	÷.
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Received for	Received for lab by (Signature)	alling Smills	-	Date/Time:	Date/Time: $b^{-t/5-D}$	261 105	T	- Refrigerated (1 emp.	d (Temp	3	Q	3 2	À] :		rax number; Attention:	istalisty (university to proper vacantical)	T
Relinguished	Relinquished by (Signature)			Date/Time	ne.			Sample Labels March Samole ID	hels Man	h Samo	1		K	 - 2	.	ver Contact:		T
	or. Islandino															Called Contact.		

2C SOIL PNA SURROGATE RECOVERY

Lab Name: STAT Analysis Contract: Burns&McDonnell
Project No: 702099 Site: Location: Group: _____

	Sample No.	S 1	S2	S3	Total Out
01	PNA Soil Blank 06/26/01	45	46	79	0
02	PNA Soil LCS 06/26/01	48	50	85	0
03	RPP-CS08-002	32	40	84	0
04	RPM-CS02-002	36	60	87	0
05	RPM-CS02-002 D	30	50	80	0
06	RPP-CS04-002	51	72	96	0
07	RPP-CS04-002 D	36	66	102	0
08	RPP-CS07-002	33	60	87	0
09	919088	60	48	72	0
10	919088MS	63	52	76	0
11	919088MSD	62	47	104	0

S1 (NBZ) = d5-Nitrobenzene

S2 (FBP) = 2-Fluorobiphenyl

S3 (TPH) = Terphenyl-d14

QC LIMITS (23-120)

(30-115)

(18-137)

Column to be used to flag recovery values

* Values outside of contract required QC limits

D Surrogate Diluted out

SEMIVOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

SBLKSOI

Lab Name: STAT Analysis

Case No.:

Contract: Burns&McDonnell

SAS No.:

SDG No.:

Lab Code: Lab File ID:

06260106.D

Lab Sample ID: PNA BLANK

Instrument ID:

GC/MS-SVOC-2

Date Extracted:

06/26/01

Matrix: (soil/water)

SOIL

Date Analyzed:

06/26/01

Level: (low/med)

LOW

Time Analyzed:

15:<u>58</u>

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

	EPA	LAB	LAB	DATE
	SAMPLE NO.	SAMPLE ID	FILE ID	ANALYZED
01	PNA SOIL LCS 06/26/01	PNASLCS062601	06260113.D	06/26/01
	RPP-CS08-002	919027	06260114.D	06/26/01
02		919028	06260116.D	06/26/01
03	RPM-CS02-002	919028 D	06260117.D	06/26/01
04	RPM-CS02-002 D	919028 D 919029	06260118.D	06/26/01
05	RPP-CS04-002	919029 919029 D	06260119.D	06/26/01
06	RPP-CS04-002 D	<u> </u>	06260120.D	06/26/01
07	RPP-CS07-002	919030	06260121.D	06/26/01
08	RPP-CS07-002 D	919030 D	06260118.D	06/26/01
09	919088	919088	06260119.D	06/26/01
10	919088MS	919088MS	1	06/26/01
11	919088MSD	919088MSD	06260120.D	00/20/01
12				
13				
14	·			
15]

COMMENTS:	

page 1 of 1

FORM IV SV

3/90

3 C SOIL POLYNUCLEAR AROMATIC LABORATORY CONTROL SAMPLE RECOVERY

Lab Name:	STAT Analysis Corp	oration	Contract:	Burns & McD	onnell	
Lab Code:	702099	Case No.:	SAS No.:		SDG No.:	
LCS - Sample ID:		SBLNK 062601	r			

	SPIKE ADDED	SAMPLE CONCENTRATION	MS CONCENTRATION	MS %	QC LIMITS
Compound	(ug/Kg)	(ug/Kg)	(ug/Kg)	REC #	1
Napthalene	167	. 0	64	38	30-140
Acenaphthylene	167	. 0	84	50	30-140
Acenaphthene	167	0	69	42	31-137
Fluorene	167	0	88	53	30-140
Phenanthrene	167	0	88	53	30-140
Anthracene	167	0	98	58	30-140
Fluoranthene	167	0	. 110	66	30-140
Pyrene	167	0	107	64	35-142
Benzo(a)anthracene	167	0	96	58	30-140
Chrysene	167	0	94	56	30-140
Benzo(b)fluoranthene	167	0	91	54	30-140
Benzo(k)fluoranthene	167	. 0	82	49	30-140
Benzo(a)pyrene	167	0	75	45	30-140
Ideno(1,2,3-cd)pyrene	167	0	64	38	30-140
Dibenz(a,h)anthrancene	167	0	66	40	30-140
Benzo(g,h,i) perylene	167	0	58	35	30-140

# Column to be used to flag * Values outside of QC limits				•	
Spike Recovery:	0 out of 16 outside limits		٠		
COMMENTS:		 			

OLM03.0

3 C SOIL POLYNUCLEAR AROMATIC MATRIX SPIKE/ MATIX SPIKE DUPLICATE RECOVERY

Lab Name: Stat Analysis		Contract: Burns &	Burns & McDonnell		
Lab Code: 702099	Case No.:	SAS No.:	SDG No.:		
Matrix Spike - Sample ID:	919088	<u> </u>			

	SPIKE	SAMPLE	MS	Ms	QC
	ADDED	CONCENTRATION	CONCENTRATION	%	LIMITS
Compound	(ug/Kg)	(ug/Kg)	(ug/Kg)	REC #	REC
Napthalene	167	1	70	41	30-140
Acenaphthylene	167	0	77	46	30-140
Acenaphthene	167	1	80	47	31-137
Fluorene	167	1 .	74	44	30-140
Phenanthrene	167	1	80	48	30-140
Anthracene	167	0	97	58	30-140
Fluoranthene	167	0	87	52	30-140
Рутепе	167	1	80	47	35-142
Benzo(a)anthracene	167	0	65	39	30-140
Chrysene	167	1	98	58	30-140
Benzo(b)fluoranthene	167	0	55	33	30-140
Benzo(k)fluoranthene	167	0	54	32	30-140
Benzo(a)pyrene	167	0	· 55	33	30-140
Ideno(1,2,3-cd)pyrene	167	0	46	27 *	30-140
Dibenz(a,h)anthrancene	167	0	58	35	30-140
Benzo(g.h.i) perylene	167	0	58	35	30-140

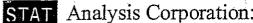
	SPIKE	MSD CONCENTRATION	MSD %	%		001	IMITS
Compound	(ug/Kg)	(ug/Kg)	REC #			RPD	REC
Napthalene	167	61	36	13		25	30-140
Acenaphthylene	167	83	50	8		25	30-140
Acenaphthene	167	77	46	4		25	31-137
Fluorene	167	88	52	17		25	30-140
Phenanthrene	167	96	57	18		25	30-140
Anthracene	167	112	67	14		25	30-140
Fluoranthene	167	110	66	23		25	30-140
Ругепе	167	108	64	30 *	Ì	25	35-142
Benzo(a)anthracene	167	80	48	20		25	30-140
Chrysene	167	101	60	3		25	30-140
Benzo(b)fluoranthene	167	59	35	8		25	30-140
Benzo(k)fluoranthene	167	56	34	25		25	30-140
Benzo(a)pyrene	167	53	32	3		25	30-140
Ideno(1,2,3-cd)pyrene	167	50	30	9		25	30-140
Dibenz(a,h)anthrancene	167	60	36	3		25	30-140
Benzo(g.h.i) perviene	167	55	33	5		25	30-140

			DDD		
# Cowmn to	be used to that	o recovery and	RPD values	with an	astensk

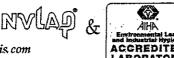
* Values outside of QC limits RPD: Spike Recovery:

1 out of 16 outside limits 1 out of 32 outside limits

COMMENTS:



STAT Analysis Corporation:
2201 West Campbell Park Drive, Chicago, Illinois 60612-3547 Tel: 312.733.0551; Fax: 312.733.2386; e-mail address: STATinfo@STATAnalysis.com



Analytical Report

Client:

Burns and McDonnell

Project ID:

27194-4.07, Rogers Park Main

Sample Number:

RPM-CST-03L

STAT Project No.: 702465

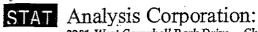
STAT Sample No.: 921174

Date Received: 8/15/01

Date Taken: 8/15/01

Time Taken: 8:00 AM

Sample IVO 72117+	* -	·	coportou. o
Analyte	Detection Limit	Result	Units
Solids, Total	10 Tay	83.09	%
BTEX/Styrene Method 5035/	/8260B		
Analysis Date: 8/16/01	•	•	
Benzene	0.002	< 0.002	mg/Kg
Toluene	0.005	< 0.005	mg/Kg
Ethyl Benzene	0.005	< 0.005	mg/Kg
Xylenes (total)	0.005	< 0.005	mg/Kg
Styrene	0.005	< 0.005	mg/Kg
Polynuclear Aromatic Hydro	carbons Method 8270C		
Preparation Date: 8/16/01			
Analysis Date: 8/17/01	•		
Naphthalene	0.025	< 0.025	mg/Kg
Acenapthylene	0.025	< 0.025	mg/Kg
Acenaphthene	0.025	< 0.025	mg/Kg
Fluorene	0.025	< 0.025	mg/Kg
Phenanthrene	0.025	< 0.025	mg/Kg
Anthracene	0.025	< 0.025	mg/Kg
Fluoranthene	0.025	< 0.025	mg/Kg
Pyrene	0.025	< 0.025	mg/Kg
Chrysene	0.025	< 0.025	mg/Kg
Benzo[a]anthracene	0.025	< 0.025	mg/Kg
Benzo[b]fluoranthene	0.025	< 0.025	mg/Kg
Benzo[k]fluoranthene	0.025	< 0.025	mg/Kg
Benzo[a]pyrene	0.025	< 0.025	mg/Kg
Indeno[1,2,3-cd]pyrene	0.025	< 0.025	mg/Kg
Dibenz[a,h]anthracene	0.025	< 0.025	mg/Kg
Benzo[g,h,i]perylene	0.025	< 0.025	mg/Kg



2201 West Campbell Park Drive, Chicago, Illinois 60612-3547 Tet 312.733.0551; Fax: 312.733.2386; e-mail address: STATinfo@STATAnalysis.com



Analytical Report

Client:

Burns and McDonnell

Project ID:

27194-4.07, Rogers Park Main

Sample Number:

RPM-CST-03L

STAT Project No.: 702465

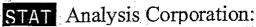
STAT Sample No.: 921174

Date Received: 8/15/01

Date Taken: 8/15/01

Time Taken: 8:00 AM

Analyte	es.	Detection Limit	Result	Units
Lead Method 60 Analysis Date:	9 20 8/17/01			
Lead		0.500	16.1	mg/Kg
SPLP Lead Met	hod 1312/6020		•	
Analysis Date:	8/18/01			
SPLP Lead		0.005	0.013	mg/L



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Analytical Report

Client:

Burns and McDonnell

Project ID:

27194-4.07, Rogers Park Main

Sample Number:

RPM-CST-03U

STAT Project No.: 702465

STAT Sample No.: 921175

Date Received: 8/15/01

Date Taken: 8/15/01

Time Taken: 8:00 AM

Analyte	Detection Limit	Result	Units
Solids, Total		83.11	%
BTEX/Styrene Method 5035/8260B Analysis Date: 8/16/01			
Benzene	0.002	< 0.002	mg/Kg
Toluene	0.005	< 0.005	mg/Kg
Ethyl Benzene	0.005	< 0.005	mg/Kg
Xylenes (total)	0.005	< 0.005	mg/Kg
Styrene	0.005	< 0.005	mg/Kg
Polynuclear Aromatic Hydrocarbons	Method 8270C		
Preparation Date: 8/16/01	,		
Analysis Date: 8/17/01			
Naphthalene	0.025	< 0.025	mg/Kg
Acenapthylene	0.025	< 0.025	mg/Kg
Acenaphthene	0.025	< 0.025	mg/Kg
Fluorene	0.025	< 0.025	mg/Kg
Phenanthrene	0.025	< 0.025	mg/Kg
Anthracene	0.025	< 0.025	mg/Kg
Fluoranthene	0.025	< 0.025	mg/Kg
Pyrene	0.025	< 0.025	mg/Kg
Chrysene	0.025	< 0.025	mg/Kg
Benzo[a]anthracene	0.025	< 0.025	mg/Kg
Benzo[b]fluoranthene	0.025	< 0.025	mg/Kg
Benzo[k]fluoranthene	0.025	< 0.025	mg/Kg
Benzo[a]pyrene	0.025	< 0.025	mg/Kg
Indeno[1,2,3-cd]pyrene	0.025	< 0.025	mg/Kg
Dibenz[a,h]anthracene	0.025	< 0.025	mg/Kg
Benzo[g,h,i]perylene	0.025	< 0.025	mg/Kg



STAT Analysis Corporation:

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Analytical Report

Client:

Burns and McDonnell

Project ID:

27194-4.07, Rogers Park Main

Sample Number:

RPM-CST-03U

STAT Project No.: 702465

STAT Sample No.: 921175

Date Received: 8/15/01

Date Taken: 8/15/01

Time Taken: 8:00 AM

Analyte	•	Detection Limit	Result	Units 5
Lead Method 60 Analysis Date:	8/17/01			
Lead		0.500	14.2	mg/Kg
SPLP Lead Met Analysis Date:	hod 1312/6020 8/18/01			
SPLP Lead		0.005	< 0.005	mg/L

nalysis Corporation

AIHA Environmental Lead ACCREDITED LABORATORY

Attention: MARCARETKE am pm Phone Number: 680-990 0307 grieb PC1166 Fax Number: 620-914-638 431124 Lab No. SUILEP Pring Results Needed: Contact Information: ō 10/21/8 8'BGS BIBGS 3'1269 Remarks ટે/ સ્ક્લિક BIRGS 3, 1845 Other Contact: **FYPE OF ANALYSES** Sample Labels Match Sample ID 2201 West Campbell Park Drive, Chicago, Illinois 60612-3547 Phone: (312) 733-0551 Fax: (312) 733-2386 - Refrigerated (Temp: e-mail address: STATinfo@STATAnalysis.com AIHA accredited 101160, NVLAP accredited 101202-0 CHAIN OF CUSTODY RECORD 8:00 Date/Time: @ -(5'0/ 11:15 Containers No. of Z Z Date/Time: 8-(5-0) Grab LEDZIE, CHARGO Comp. Date/Time; Date/Time: Date/Time: 8:00p. Taken 8-150 l Taken Date Sex MAS banktulen Mitheltoeren + Sware & M. Commer Sample Description 27194-4.0 PAM-CSH-OLLY RAM-CSH-0712 RAM-CST-084 SAM-CSH-OTL PAM-CSH-OLL PPM-CST-D3L ESPERS 45 9M Received for lab by: (Signature) Relinquished by: (Signature) Relinquished by: (Signature) Relinquished by: (Signature) Received by: (Signature) ocation/Address: Project Number: Project Name: Client Name: Client Sample Samplers: .: 20 .:

2 D SOIL POLYNUCLEAR AROMATIC HYDROCARBON SURROGATE RECOVERY

Lab Name:	STAT Analysis Corpor	ation	Contract	Burns & McDonnell	
Lab Code:	702465	Case No.:	SAS No.:	-	SDG No.:
Level: (low/r	med) LOW				

EPA	S1	S2	T S3	S4	TOT
SAMPLE NO.		# NBZ #		TPH #	OUT
01 SBLNK-2 081601	57	72	103	. 91	0
02 SLCS-2 081601	53	75	103	96 .	0
03 RPM-CST-03L	51	66	67	97"	0
04 RPM-CST-03U	42		59	64	0
05 RPM-CSH-06L	45	60	91	86	0
06 RPM-CSH-06U	45	. 54 .	60	111	0
07 RPM-CSH-06U D	90	60	60	90	0
08 RPM-CSH-07L	39	39	79	72	0
09 RPM-CSH-07U	110	40	115	125	0
10 920956	37	49	73	73	. 0
11 920956MS	46	57	69	81	0
12 920956MSD	42	48	77	76	<u> </u>
13					
14					
15		<u> </u>			
16				_	
17		ļ			
18					
19					
20				<u> </u>	

		· ·	QC LIMITS
S1 DCB	. =	1,2-Dichlorobenzene-d4	20 - 130
S2 NBZ	=	Nitrobenzene-d5	23 - 120
S3 2FB	=	2-Fluorobiphenyl	30 - 115
S4 TPH	=	p-Terphenyl-d14	18 - 137

Column to be used to flag recovery values

* Values outside of contract required QC limits

D Surrogate diluted out

4B

POLYNUCLEAR AROMATIC HYDROCARBON METHOD BLANK SUMMARY

FPA	$S\Delta$	MPI	₽	NO

Lab Name:	STAT Analysis Corpo	oration	_Contract:	Burns & McDonnell	SBLNK-2 081601
Lab Code:	702465	Case No.:		SAS No.:	SDG No.:
Lab File ID:	08170104.D	-		Lab Sample ID:	
Instrument ID:	SVOC-2		÷	Date Extracted:	8/16/01
Matrix: (soil/wa	iter) <u>SOIL</u>	 -		Date Analyzed:	8/17/01
Level: (low/me	d) <u>LOW</u>	-		Time Analyzed:	10:21 AM

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

	EPA .	LAB	LAB	DATE
	SAMPLE NO.	SAMPLE ID	FILE ID	ANALYZED
01	PNA SOIL LCS-2 081601	PNA SLCS-2 081601	08170106.D	8/17/01
	RPM-CST-03L	921174	08170107.D	8/17/01
03	RPM-CST-03U	921175	08170108.D .	8/17/01
04	RPM-CSH-06L	921176	08170109.D	8/17/01
05	RPM-CSH-06U	921177	08170110.D	8/17/01
06	RPM-CSH-06U D	921177 D	08170111.D	8/17/01
07	RPM-CSH-07L	921178	08170112.D	8/17/01
08	RPM-CSH-07U	921179	* 081701 <u>13.</u> D	8/17/01
09	920956	920956	08170114.D	8/17/01
10	920956MS	920956MS	08170115.D	8/17/01
11	920956MSD	920956MSD	08170116.D	8/17/01
12				
13				
14				
15				
16				
17				
18		-3 6 ·		
19				<u> </u>
20				· .
21				

COMMENTS:	٨.	

3 C SOIL POLYNUCLEAR AROMATIC LABORATORY CONTROL SAMPLE RECOVERY

Lab Name:	STAT Analysis	Corporation	Contract: <u>Burns&</u>	McDonnell	
Lab Code:	702465	Case No.:	SAS No.:	SDG No.:	<u>. </u>
LCS - Sample ID:		SLCS-2 081601			

Compound	SPIKE ADDED (ug/Kg)	BLANK CONCENTRATION (ug/Kg)	LCS CONCENTRATION (ug/Kg)	LCS % REC #	QC LIMITS REC
Napthalene	167	0	154	92	30-130
Acenaphthylene	167	0	. 182	109	30-130
Acenaphthene	167	0	119	71	30-130
Fluorene	167	0	109	66	30-130
Phenanthrene	167	- 0	135	81	30-130
Anthracene	167	0	136	81	30-130
Fluoranthene	167	0	148	88	30-130
Pyrene	167	0	153	92	30-130
Benzo(a)anthracene	167	0	81	48	30-130
Chrysene	167	0	. 74	44	30-130
Benzo(b)fluoranthene	167	0	135	81	30-130
Benzo(k)fluoranthene	167	0	83	50	30-130
Benzo(a)pyrene	167	0	71	43	30-130
Ideno(1,2,3-cd)pyrene	167	0	63	38	30-130
Dibenz(a,h)anthrancene	167	0	61	37	30-130
Benzo(g,h,i) perylene	167	0	65	39	30-130

# Column to be used to * Values outside of QC	o flag recovery with an asterisk limits	•	-		
Spike Recovery:	0 out of 16 outside limits	÷			
COMMENTS:	***			-	
			-		

OLM03.0

3 C SOIL POLYNUCLEAR AROMATIC MATRIX SPIKE/ MATRIX SPIKE DUPLICATE RECOVERY

Lab Name:	STAT Analysis	Corporation	1	Contract:	Burns&McDo	nnell	
Lab Code:	702465	,	Case No.:	SAS No.:		SDG No.:	
Matrix Spike - Sa	ample ID:	920956		_			

	SPIKE	SAMPLE	MS	MS	-QC
	ADDED	CONCENTRATION -	CONCENTRATION	%	LIMITS
Compound	(ug/Kg)	(ug/Kg)	(ug/Kg)	REC #	REC
Napthalene	167	2	102	60	30-130
Acenaphthylene	167	1	131	.78	30-130
Acenaphthene	167	1	85	50	30-130
Fluorene	167	0	86	51	30-130
Phenanthrene	167	1	100	59	30-130
Anthracene	167	0	96	58	30-130
Fluoranthene	167	1	130	77	30-130
Pyrene	167	2	133	78	30-130
Benzo(a)anthracene	167	1	: 85	50	30-130
Chrysene	167	1 *	. 75	44	30-130
Benzo(b)fluoranthene	167	1	100	59	30-130
Benzo(k)fluoranthene	167	0	71	43	30-130
Вепло(а)рутеле	167	0	70	42 ·	30-130
Ideno(1,2,3-cd)pyrene	167	0	. 72	43	30-130
Dibenz(a,h)anthrancene	167	0	61	36	30-130
Benzo(g.h.i) perviene	167	0	69	41	30-130

	SPIKE	MSD	MSD	P/			
Compound	ADDED (ug/Kg)	CONCENTRATION (ug/Kg)	REC #	% RPD. #		RPD	LIMITS REC
	167	100	59		*		
Napthalene				2	4	50	30-130
Acenaphthylene	167	134	79	2		50	30-130
Acenaphthene	167	83 -	49	2	_	50 -	30-130
Fluorene	167	86	51	1	ŀ	50	30-130
Phenanthrene	167	107	63	6		50	30-130
Anthracene	167	103	62	7		50	30-130
Fluoranthene	167	_126	75	3] .	50	30-130
Pyrene	167	131	78	1]	50	30-130
Benzo(a)anthracene	167	77	46	10] •	.50	30-130
Chrysene	167	80	48	7		50	30-130
Benzo(b)fluoranthene	167	118	70	17]	50	30-130
Benzo(k)fluoranthene	167	87	52	19		50	30-130
Benzo(a)pyrene	167	66	39	6		50	30-130
Ideno(1,2,3-cd)pyrene	167	63	38	13],	50	30-130
Dibenz(a,h)anthrancene	167	62	37	1 1		50	30-130
Benzo(g.h.i) perylene	167	65	39 ·	6		50	30-130

# Column to be used to flag recov	ery and RPD values with an asterisk
* Values outside of QC limits	

RPD: Spike Recovery:

0 out of 16 outside limits 0 out of 32 outside limits

COMMENTS:



STAT Analysis Corporation:

2201 West Campbell Park Drive, Chicago, Illinois 60612-3547 Tel: 312.733.0551; Fax: 312.733.2386; e-mail address: STATinfo@STATAnalysis.com





INORGANIC Initial Batch QC

Lab Name:

STAT Analysis Corporation

Contract: Burns & McDonnell

Project No.:

27194-4.07

Instrument: ICPMS

Batch No.:

702465

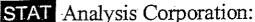
Associated Samples:

921174 - 921179

Matrix:

Soil

									Prepara	ition	
		 CS 1 (μg/I	ر.	L	CS 2 (µg/I	L)			Blan	k	
Anälyte	True	Found	%R	True	Found	%R	RPD	\mathbf{C}^{r}		Ċ	M
Lead	500	554	111	500	562	112	1.5		0.63		MS



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Tel: 312.733.0551; Fax: 312.733.2386; e-mail address: STATinfo@STATAnalysis.com





INORGANIC Matrix Spike and Matrix Spike Dupliacte Recovery Form

Lab Name:

STAT Analysis Corporation

Instrument: ICPMS

Project No.:

27194-4.07

Batch No.:

702465

Sample No.: 921174

Associated Samples:

921174 - 921179

Sample Spike No.: 921174 MS

Matrix:

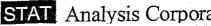
Soil

Sample Spike Duplicate No.: 921174 MSD

Concentration Units:

mg/Kg

·	Spike	Spike						**				
	Added	Added	Sample		•		:					
Analyte	MS	MSD	Result	MS	%R	С	MSD	%R	C	RPD	Q	M
Lead	23.5	24.6	13.4	40.1	114		40.9	112		1.9		MS



STAT Analysis Corporation:
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Tel: 312.733.0551; Fax: 312.733.2386; e-mail address: STATinfo@STATAnalysis.com





INORGANIC Initial Batch QC

Lab Name:

STAT Analysis Corporation

Contract: Burns & McDonnell

Project No.:

27194-4.07

Instrument: ICPMS

Batch No.:

702465

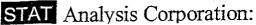
Associated Samples:

921174 - 921179

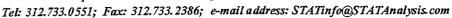
Matrix:

Aqueous

· . :								•	Prepara	ation	
,	L	CS 1 (μg/I	ر_)	L	CS 2 (μg/I	ر.)			Blan	k	,
Analyte	True	Found	%R	True	Found	%R	RPD	C		C.	M
Lead	2,000	1,812	90.6	2,000	1,847	92,4	1.9		0.72		MS



2201 West Campbell Park Drive, Chicago, Illinois 60612-3547







INORGANIC Matrix Spike and Matrix Spike Dupliacte Recovery Form

Lab Name:

STAT Analysis Corporation

Instrument: ICPMS

Project No.:

27194-4.07

Batch No.:

702465

Sample No.: 221941-001

Associated Samples:

921174 - 921179

Sample Spike No.: 221941-001 MS

Matrix:

Aqueous

Sample Spike Duplicate No.: 221941-001 MSD

Concentration Units:

μg/L

	Spike	Spike		-								
]	Added	Added	Sample	•						-	-	
Analyte	MS	MSD	Result	MS	%R	C	MSD	%R	C	RPD	Q	М
Lead	2,000	2,000	25.4	1,908	94.1		1,862	91.8		2.4	·	MS

STAT Analysis Corporation:

2201 West Campbell Park Drive, Chicago, Illinois 60612-3547 Tel: 312.733.0551; Fax: 312.733.2386; e-mail address: STATinfo@STATAnalysis.com

Date: 8/29/01

INVOICE

Burns & McDonnell 2601 W. 22nd Street

Oak Brook, Illinois 60523-1229

Phone: (630) 990-0300 (630) 990-0301 Fax:

Invoice No .:

702465

Client:

Burns & McDonnell

Client Reference: 27194-4.07, Rogers Park Main

Batch Number:

702465

ANALYTICAL FEES for 6 samples:

6	BTEX/Styrene	samples @	\$ 40.00 / sample	\$ 240.00
6	PAH	samples @	\$ 90.00 / sample	\$ 540.00
6	Total Lead	samples @	\$ 10.00 / sample	\$ 60.00
6	SPLP Lead	samples @	\$ 65.00 / sample	\$ 390.00

Sub-Total: 1,230.00 \$ 6 EPA Method 5035 Kit @ \$7.00/kit: 42.00 \$

Total Amount Due:

\$ 1,272.00

INVOICE TERMS:

NET 30 DAYS

Please Remit Invoice to:

STAT Analysis Corporation 2201 W. Campbell Park Drive

Chicago, Illinois 60612-3547

STAT Analysis Corporation:

2201 West Campbell Park Drive, Chicago, Illinois 60612-3547 Tel: 312.733.0551; Fax: 312.733.2386; e-mail address: STATinfo@STATAnalysis.com

Date: 8/29/01

INVOICE

Burns & McDonnell 2601 W. 22nd Street

Oak Brook, Illinois 60523-1229

Phone: (630) 990-0300 Fax: (630) 990-0301

Invoice No.:

702465

Client:

Burns & McDonnell

Client Reference: 27194-4.07, Rogers Park Main

Batch Number:

702465

ANALYTICAL FEES for 6 samples:

.6	BTEX/Styrene	samples @	\$ 40.00 / sample	\$ 240.00
6	PAH	samples @	\$ 90.00 / sample	\$ 540.00
6	Total Lead	samples @	\$ 10.00 / sample	\$ 60.00
6	SPLP Lead	samples @	\$ 65.00 / sample	\$ 390.00
	·			

Sub-Total: \$ 1,230.00

6 EPA Method 5035 Kit @ \$7.00/kit:

\$ 42.00

Total Amount Due:

1,272.00

INVOICE TERMS:

NET 30 DAYS

Please Remit Invoice to:

STAT Analysis Corporation

2201 W. Campbell Park Drive

Chicago, Illinois 60612-3547

2201 West Campbell Park Drive Chicago, Illinois 60612-3501 Tel: 312.733.0551 Fax: 312.733.2386 e-mail address: STATinfo@STATAnalysis.com AIHA accredited 10248, NVLAP accredited 101202-0.

August 23, 2001

Margaret Kelley Burns & McDonnell 2601 W. 22nd Street

Oak Brook, Illinois 60523-1229

Phone: (630) 990-0300 Fax: (630) 990-0301

Re: Project Number/Name:

27194-4.07, Rogers Park Main

STAT Project Number:

702465

STAT Sample Nos.:

921174.- 921179

Date Received:

August 15, 2001

Dear Ms. Kelley:

Enclosed are the analytical results for the above referenced project. The samples were analyzed as per the enclosed chain of custody.

All analyses were performed in accordance with methods from the USEPA publication <u>Test</u> Methods for Evaluating Solid Wastes, <u>Physical/Chemical Methods</u>, SW-846, 3rd Edition, December, 1996. Specific method references are listed on the analytical report. Where applicable, results are expressed on a dry weight basis as per method protocols.

All analyses were performed within the established holding times, and all quality control criteria, as outlined in the method have been met. QA/QC documentation and raw data will remain on file for future reference.

Thank you for the opportunity to serve you and we look forward to working with you in the future. If you have any questions about the enclosed materials, please call me at 312-733-0551.

Sincerely,

Amanda Scampini

Assistant Project Manager

Approved by:

Craig Chawla Project Manager

2201 West Campbell Park Drive Chicago, IL 60612-3547 312.733.0551 Fax:312.733.2386 e-mail address: STATinfo@STATAnalysis.com AIHA accredited 10248, NVLAP accredited 101202-0

September 24, 2001

Margaret Kelly Burns & McDonnell 2601 W. 22nd Street OakBrook, IL 60523-1229

Telephone: (630) 990-0300

Fax:

(630) 990-0301

RE: 27194-4.07, Rogers Park Main

STAT Project No. 0109048

Dear Margaret Kelly:

STAT Analysis received 2 samples for the referenced project on 9/21/2001. The analytical results are presented in the following report.

All analyses were performed in accordance with methods as referenced on the analytical report. Those analytical results expressed on a dry weight basis are also noted on the analytical report.

All analyses were performed within established holding time criteria, and all Quality Control criteria met EPA or laboratory specifications except where noted in the Case Narrative.

Thank you for the opportunity to serve you and I look forward to working with you in the future. If you have any questions regarding the enclosed materials, please contact me at (312) 733-0551.

Sincerely,

Amanda Scampini

Assistant Project Manager

Date: September 24, 2001

CLIENT:

Burns & McDonnell

Project:

27194-4.07, Rogers Park Main

Lab Order:

0109048

Work Order Sample Summary

Lab Sample ID

Client Sample ID

Tag Number

Collection Date

Date Received

0109048-001A

RPP-CS04-04

9/21/2001 1:00:00 PM

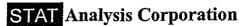
9/21/2001

0109048-002A

RPM-CS03-01,

9/21/2001 1:00:00 PM

9/21/2001







2201 West Campbell Park Drive Chicago, IL 60612-3547 Tel: (312) 733-0551 Fax: (312) 733-2386 STATinfo@STATanalysis.com

Date: September 24, 2001

CLIENT:

Burns & McDonnell

Client Sample ID: RPM-CS03-01

Lab Order:

0109048

Tag Number:

Project:

27194-4.07, Rogers Park Main

Collection Date: 9/21/2001 1:00:00 PM

Lab ID:

0109048-002A

Matrix: SOIL

Analyses	Result	Limit Qual	Units	DF	Date Analyzed
TOTAL METALS BY ICPMS	38	SW6020 0.57	Prep Da	te: 9/21/2001	Analyst: MCL 9/22/2001
ICPMS METALS, SPLP LEACHED Lead	0.011	SW1312/6020 0.005		te: 9/23/2001 5	Analyst: MCL 9/23/2001
PERCENT MOISTURE Percent Moisture	14.61	D2216 0.01	Prep Da	te: 1	Analyst: BTN 9/22/2001

R - RPD outside accepted recovery limits

Environmental Lead and Industrial Hygiente ACCREDITED

am/pm furnaround Time: Phone Number: 650-9900300 Lab No. Fax Number: 020 990-6301 Results Needed: 667 8 Nº: 0109048 Contact Information: ō 12401 Attention: ML Remarks KAR Other Contact: (1) (1) (1) (1) (1) (1) TYPE OF ANALYSES Sample Labels Match Sample ID 2201 West Campbell Park Drive, Chicago, Illinois 60612-3547 Phone: (312) 733-0551 Fax: (312) 733-2386 e-mail address: STATInfo@STATAnalysis.com AIHA accredited 10248, NVLAP accredited 101202-0 Samples Leakin Container OK CHAIN OF CUSTODY RECORD No. of Containers Date/Time: 9 (21/0) Grab Comp. Date/Time: 7 Wes Date/Time: Date/Time: Date/Time: 9-26-6/1:00m 9-24-011:00m Taken Time Date Taken PERENS PROT NACO DOSO N. KEDZIE, LIKENS & M. C. Comer THAI Chalos conversed Whattoerese 7-7194-4.07 Sample Description Ap-Csoy-ou PM-0803-01 y: (Signature) Relinquished by: (Signature) Relinquished by: (Signature) Relinquished by: (Signature) Received by: (Signature) .ocation/Address: Project Number: Project Name: Client Name: Client Sample Received for Samplers:

Date: 02-Oct-01

FUIENT:

Burns & McDonnell

rk Order:

0109048

Project:

27194-4.07, Rogers Park Main

Test No:

SW8270(SIM)

Matrix:

QC SUMMARY REPORT SURROGATE RECOVERIES

Sample ID	DCBZ12D4	NO2BZD5	PHEN2F	PHEND14	 		
0109047-001BMS		38.5	42.7	42.1		1 .	
0109047-001BMSD		41.5	44.5	46.7		 -	
0109048-001A	24.2	45.3	32.5	46.1	 		
LCS-092101		65.1	66.1	74.5		 	
MB-092101		44.7	48.5	59.3		 +	

Acronym	Surrogate	QC Limits
DCBZ12D4	= 1,2-Dichlorobenzene-d4	20-130
NO2BZD5	= Nitrobenzene-d5	23-120
PHEN2F	= 2-Fluorobiphenyl	30-115
PHEND14	= 4-Terphenyl-d14	18-137
	•	
	•	

Burns & McDonnell CLIENT:

0109048 Work Order:

Project:

27194-4.07, Rogers Park Main

ANALYTICAL QC SUMMARY REPORT

BatchID: 71

Sample ID: MB-003404	To the Control of the						
101760-CI WILLIAM	Samp I ype: MBLK	TestCode:	de: PNA_SOIL+ Units: mg/Kg		Prep Date: 9/24/2004		
Client ID: ZZZZ	Batch ID: 71	TestNo:	SW8270(SIM)			SeaNo: 2662	
Analyte	Result	Pol	SPK value SPK Ref Val	%REC	LowLimit HighLimit RPD Ref Val	Amin Adda GOO%	Č
Phenol	0.002667	0.025				- 1	Cual
Naphthalene	0.002667	0.025				-	⊸
2-Methylnaphthalene	0.001333	0.025					<u>.</u>
1-Methylnaphthalene	0.001	0.025					٠,
Acenaphthylene	0	0.025					~,
Acenaphthene	0	0.025					-
Dibenzofuran	0	0.025					
Fluorene	0	0.025	٠				
Phenanthrene		0.025					
Anthracene	0	0.025	•				
Carbazole	0.001333	0.025					٠
Fluoranthene	0	0.025					•
Pyrene	0	0.025					
Benz(a)anthracene	0	0.025					~
Chrysene	0	0.025					
Bis(2-ethylhexyt)phthalate	0.011	0.025					
Benzo(b)fluoranthene	.0	0.025					•
Benzo(k)fluoranthene	0	0.025					
Benzo(a)pyrene	0	0.025				•	
Indeno(1,2,3-cd)pyrene	0	0.025					
Dibenz(a,h)anthracene	0	0.025					
Benzo(g,h,i)perylene		0.025					
Surr: 2,4,6-Tribromophenol	0.131	0	0 167	70.7			٠.
Surr: 2-Fluorobiphenyl	0.081	0		. α . α	722	0	
Surr: 2-Fluorophenol	0.081			י מ טימ	115		
Surr: 4-Terphenyl-d14	0.099	0		2,0	1.71	0	
Surr: Nitrobenzene-d5	0.07467	0		2000		0	
Surr: Phenol-d5	0.09433	0		56.5	24 113	0 .	-
		-			2	0	-

J - Analyte detected below quantitation limits Qualifiers:

ND - Not Detected at the Reporting Limit

S - Spike Recovery outside accepted recovery limits R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

Page 2 of 8

ANALYTICAL QC SUMMARY REPORT

Burns & McDonnell

0109048

Work Order: CLIENT:

	11		
1: 71		Run ID: SVOC-4_010923C	
BatchID: 71		Prep Date: 9/21/2001	
		Prep Date:	
		Je: FNA_SOIL+ Units: mg/Kg	
		restone: PNA_SOIL+	
27194-4.07, Rogers Park Main	Samilina. 100	Dotal IN: 32	
	Sample ID: 1 CS.092404	Client ID: 77777	
Project:	Samule	Client ID	֡֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜

Sample ID: LCS-092101	SampTyne: 1 Cs	Toods.	100 A MO :0				Ш				
		2000	te. FINA_30IL+	T OHES: Mg/Kg		Prep Date:	9/21/2001		Run ID: SV	Run ID: SVOC-4_010923C	္က
Cilett ID: 22222	Batch (D: 71	Testh	TestNo: SW8270(SIM)	M)		Analysis Date:	9/23/2001		SeqNo: 2663	63 ·	
Analyte	Result	POL	SPK value	SPK Ref Val	%REC	LowLimit +	HighLimit R	RPD Ref Val	%RPD	RPDI imit	Ğ
Phenol	0,1157	0.025	0.167	0.002667	67.7	30					
Naphthalene	0.094	0.025	0.167	0,002667	54.7	8 6	3 6	> C	> 0		
2-Methylnaphthalene	0.1073	0.025	0.167	0.001333	63.5	8 8	130	>			
1-Methylnaphthalene	0.1143	0.025	0.167	0,001	67.9	30	130	> C			
Acenaphthylene	0.111	0.025	0.167	0	66.5	30	130	o c	> C		
Acenaphthene	0.09733	0.025	0.167	0	58.3	8 8	130		> C		
Dibenzofuran	0.1197	0.025	0.167	0	71.7	30	130) C	o c		
Filorene	0.1087	0.025	0.167	0	65.1	30	130				
Phenanthrene	0.1177	0.025	0.167	0	70.5	30	130	0			
Anthracene	0,098	0.025	0.167	0	58.7	30	130				
Carbazole	0.1543	0.025	0.167	0.001333	91.6	30	130	o c		-	
Fluoranthene	0.1063	0.025	0.167	0	63.7	30	130				
Pyrene	0.1047	0.025	0.167	0	62.7	30	130	o c		· · · · · · · · · · · · · · · · · · ·	-
Benz(a)anthracene	0.1243	0.025	0.167	0	74.5	30	130	, c			
Chrysene	0.1283	0.025	0.167	0	76.8	30	3 (3)	o c	>	•	
Bis(2-ethylhexyl)phthalate	0.1747	0.025	0.167	0.011	86	30	130	0 0			
Benzo(b)fluoranthene	0.1203	0.025	0.167	0	72.1	30	130	0 0	> C		
Benzo(k)fluoranthene	0.086	0.025	0.167	0	51.5	30	130	o c			
Benzo(a)pyrene	0.1177	0.025	0.167	0	70.5	30	130				
Indeno(1,2,3-cd)pyrene	0.1223	0.025	0.167	0	73.3	30	130	o c			
Dibenz(a,h)anthracene	0.1243	0.025	0.167	0	74.5	30	130	0	o c		
Benzo(g,h,i)perylene	0.1207	0.025	0.167	0	72.3	30	130) C			-
Surr: 2,4,6-Tribromophenol	0.1553	0	0.167	0	93	÷ 1	133	0 0	> (
Surr: 2-Fluorobiphenyl	0.1103	0	0.167	0	66.1	OE S	<u> </u>				
Surr: 2-Fluorophenol	0.09967	0	0.167	0	59.7	35	5 5	0 0			
Surr: 4-Terphenyl-d14	0.1243	0	0.167	0	74.5) t	137	o c	-		٠
Surr: Nitrobenzene-d5	0.1087	0	0.167	0	65.1	2 E	5 5	0 0	0 (
Surr: Phenol-d5	0.1173	0	0.167	0	70.3	2,0	7 7		5		
						ŀ	2		>		

Qualifiers:

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

CLIENT: Burns & McDonnell

Work Order: 0109048

27194-4.07, Rogers Park Main

Project:

ANALYTICAL QC SUMMARY REPORT

BatchID: 71

Committee Discontinue of the contract of the c											
Sample ID: 0109047-001BMS	SampType: MS	TestCode:	ie: PNA_SOIL+	+ Units: mg/Kg-dry		Prep Date:	9/21/2001		Bin ID: evoc	040000	
Client ID: ZZZZZ	Batch ID: 71	TestNo:	40: SW8270(SIM)	_		Analysis Date:	0/22/2004		Null ID. 5000-4_0108250	4_010923C	
					•	manyais Date.	9/23/2001		SedNo: 2675		
Analyte	Result	Pol	SPK value	SPK Ref Val	%REC	LowLimit H	HighLimit RPC	RPD Ref Val	, %RPD RP	RPDLimit (Qual
Phenol	0.1002	0.029	0.1953	0.002729	49.9	30	130	0			
Naphthalene	0.07562	0.029	0.1953	0.003119	37.1	30	130	· c			
2-Methylnaphthalene	0.09667	0.029	0.1953	0.003119	47.9	30 8	130	> C		-	
1-Methylnaphthalene	0.09979	0.029	0.1953	0.001949	50.1	30	130	· c	o c		
Acenaphthylene	0.09005	0.029	0.1953	0	46.1	308	130	,	> <		
Acenaphthene	0.07913	0.029	0.1953	0	40.5	30	130	o c	o c		
Libenzoturan	0.1053	0.029	0.1953	0.0007796	53.5	30	130	· c	o c		
Fluorene	0.08888	0.029	0.1953	0	45.5	30	130	• •	o c		
Phenanthrene	0.09434	0.029	0.1953	0	48.3	30	130	· c	> C		
Anthracene	0.08459	0.029	0.1953	0	43.3	30	130		o c		
Carbazole	0.1314	0.029	0.1953	0.001559	66.5	30	130	o c	o c		
Fluoranthene	0.092	0.029	0.1953	0	47.1	30	130	òc			
Pyrene	0.0842	0.029	0.1953	0	43.1	90	130	,	.		
Benz(a)anthracene	0.113	0.029	0.1953	0	57.9	30	130	9 6	-		
Chrysene	0.115	0.029	0.1953	0	58.9) (2)	130	> C			
Bis(2-ethylhexyl)phthalate	0.1727	0.029	0.1953	0.02846	73.9	30	130	o c	> 0		
Benzo(b)fluoranthene	0.1072	0.029	0.1953	0	54.9	30	130	> <	• •		
Benzo(k)fluoranthene	0.136	0.029	0.1953	0	69.7	0E	130	,			
Benzo(a)pyrene	0.1216	0.029	0.1953	0	62.3	30	130				
Indeno(1,2,3-cd)pyrene	0,1084	0.029	0.1953	0	55.5	8 8	30 2	,)		
Ulbenz(a,h)anthracene	0.1084	0.029	0.1953	0	55.5	30	130	· c	o c		
Benzo(g,h,i)perylene	0.1107	0.029	0.1953	0	56.7	90	130	· c	> <		
Surr: 2,4,6-Tribromophenol	0.1337	0	0.1953	0	68.5	9	122	o c	>		
Surr: 2-Fluorobiphenyl	0,08342	0	0.1953	0	42.7	300	7 1 2 1 3	o c	>		
Surr: 2-Fluorophenol	0.09005	0	0.1953	0	46.1	25.	12.5	> <	.		
Surr: 4-Terphenyl-d14	0.08225	.0	0.1953	0	42.1	3 5	137	o. c	.		
Surr: Nitrobenzene-d5	0.07523	0	0.1953	0	38.5	23 - 52	2 6	> 0	5 (
Surr: Phenol-d5	0,1056	0	0.1953		7.4	3 6	143	-)		
				>	į	4 7	<u>.</u>	>	0		

Qualifiers:

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

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B - Analyte detected in the associated Method Blank

ANALYTICAL QC SUMMARY REPORT

BatchID: 71

Sample ID: 0109047-001BMSD SampType: MSD TestCode: PNA_SOIL+ Units: mg/Kg-dry Prep Date: 9/21/2001 Run ID: SVOC-4_010923C			Kun iD: SVOC-4_010923C
: 0109047-001BMSD SampType: MSD Tes ZZZZZ Batch ID: 71 T		. 0/24/2004	. 3/4//2001
: 0109047-001BMSD SampType: MSD Tes ZZZZZ Batch ID: 71 T		Pren Date:	
: 0109047-001BMSD SampType: MSD Tes ZZZZZ Batch ID: 71 T		Units: ma/Ka-dry	
: 0109047-001BMSD SampType ZZZZZ Batch ID		TestCode: PNA SOIL+	Techlo: CMcozover
: 0109047-001BMSD		SampType: MSD	Batch ID: 71
Sample ID: 010904 Client ID: ZZZZZ		17-001BMSD	••
Sample II Client ID:		U: U10904	77777
	-	sample II	

27194-4.07, Rogers Park Main

Burns & McDonnell 0109048

Work Order: CLIENT:

Project:

Sample ID: 0109047-001BMSD	SampType: MSD	TestCod	de: PNA_SOIL+	+ Units: mg/Kg-dry	g-dry	Prep Date:	9/24/2004	-	Die ID. e.(C	7 0	
Client ID: ZZZZZ	Batch ID: 71	TestN	40: SW8270(SIM)	_		Analysis Date:			SedNo: 2676	7C-4_010923	
Analyte	Result	Pal	SPK value	SPK Ref Val	%REC	l owl imit	High in	וייין זיים טפע	9	: 0	(
Phenol	0.4029	0000	0.00			-	111111111111111111111111111111111111111	is Dive val	UHAN.	RFDLIMIT	Quai
Naphthalene	0.1049	0.029	0.1953	0.002729	51.3	30	130	0.1002	2.69	20	
2-Methylpophthologo	/0//0.0	0.029	0.1953	0.003119	38.1	30	130	0.07562	2.54		
4 Mothydacapthalas	0.09784	0.029	0,1953	0.003119	48.5	30	130	0.09667	1.20	50.	
A consolition and a consolition are a consolition and a consolition are a consolitio	0.1041	0.029	0.1953	0.001949	52.3	30	130	0.09979	5 - 4 5 - 5 - 5	3 6	
Acenaphthan	0.09512	0.029	0.1953	0	48.7	30	130	0.09005	5.47	3 6	
Diheozofuran	0.08225	0.029	0.1953	0	42.1	30	130	0.07913	3.86	8 28	
Fluciene	0.1068	0.029	0.1953	0.0007796	54.3	30	130	0.1053	1.47	20 2	
Phenanthrene	0.00049	0.029	0.1953	0	45.3	30	130	0.08888	0.440	: ₆ 2	
Anthracene	0.1030	0.029	0.1953	0	54.1	30	130	0.09434	11.3	20	
Carbazole	0.00473	0.029	0.1953	0	48.5	30	130	0.08459	11.3	20	
Fluoranthone	0.130	0.029	0.1953	0.001559	6.69	30	130	0.1314	4.92	505	
Dyrana	0.09784	0.029	0.1953	0	50.1	30	130	0.092	6.16	S 52	
Beny(e)boothroope	0.09044	0.029	0.1953	0	46.3	30	130	0.0842	7.14	3 €	
Chargone	0.1142	0.029	0.1953	0	58.5	30	130	0.113	1.03	3 6	
Dis/2 other how downtoners	0.1158	0.029	0.1953	0	59.3	30	130	0.115	0.676	3 5	
Cis(z-eurymekyr)punnalate Repzo/h)finoranthene	0.1704	0.029	0.1953	0.02846	72.7	30	130	0.1727	1.36	3 6	
Benzo(k)fluoranthene	0.1524	0.029	0.1953	0	78	30	130	0.1072	34.8	S 55	
Benzo(a)ovrene	0.00301	0.029	0.1953	0	42.9	30	130	0.136	47.5	20	
Indeno(1,2,3-cd)pyrene	0.1216	0.029	0.1953	0 (62.3	30	130	0.1216	0	20	
Dibenz(a,h)anthracene	0 1090	0.020	0.1953	o (56.5	30	130	0.1084	1.78	20	
Benzo(g,h,i)perylene	0.1033	0.029	0.1953	0	56.3	30	130	0.1084	1.43	20	
Surr; 2,4,6-Tribromophenol	0.1.60	0.029	0.1953	0	57.5	30	130	0.1107	1.40	20	
Sur: 2-Fluorobinbeny	00800	5 (0.1953	0	69.5	19	122	0	0	.0	
Sur: 2-Fluorophenol	0.00033	o (0.1953	0	44.5	30	115	0	0	C	
Surr 4-Tembery 444	0.09044	o	0.1953	0	46.3	25	121	0	0		-
Surr Nitrobongood an	0.09122	0	0.1953	0	46.7	- 81	137	0	, ,	• •	
Surr Phenol-45	0.08108	0	0.1953	0	41.5	23	120	Ó	, 0	, c	
	0.100	o	0.1953	0	54.3	24	113	0	0		
										٠.	

ND - Not Detected at the Reporting Limit	J - Analyte detected below quantitation limits
Qualifiers:	

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recovery limit	
ike Recovery outside accepted recovery limi	
Recovery o	
S - Spike I	!
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Burns & McDonnell CLIENT:

0109048 Work Order: **Project:**

27194-4.07, Rogers Park Main

ANALYTICAL QC SUMMARY REPORT

BatchID: 84

Sample ID: MBS2 9/21	SampType: MBLK	TestCode: M_ICPMS_S Units: mg/Kg	Prep Date: 9/24/2004	Run IO: LOBMS 040000A
Client ID: ZZZZZ	Batch ID: 84			27700 0 m 10 10 10 10 10 10 10 10 10 10 10 10 10
Analyte	Result	PQL SPK value SPK Ref Val %REC	low imit His	87
Lead	0.0024			אירים אירים עשו
Sample ID: LCSS2 9/21 Client ID: ZZZZZ	SampType: LCS Batch ID: 84	TestCode: M_ICPMS_S Units: mg/Kg TestNo: SW6020	Prep Date: 9/21/2001 Analysis Date: 9/22/2001	Run ID: ICPMS_010922A SeqNo: 2429
Analyte	Result 0.5413	PQL SPK value SPK Ref Val %REC 0.010 0.5 0.0024 1.08	LowLimit HighLimit RPD Ref V.	%RPD RPDLimit Qual
		17000		0
Sample ID: LCSDS2 9/21 Clent ID: ZZZZZ	SampType: LCSD Batch iD: 84	TestNo: SW6020	Prep Date: 9/21/2001 Analysis Date: 9/22/2001	Run ID: ICPMS_010922A SeqNo: 2430
Analyte	Result	PQL SPK value SPK Ref Val %REC	C LowLimit HighLimit RPD Ref Val	%RPD RPDLImit Qual
Lead	0.6171	0.010 0.5 0.0024 123	3 80 120 0.5413	1
Sample 1D: 0109047 001BMS Client ID: ZZZZZ	SampType: MS Batch ID: 84	TestCode: M_ICPMS_S Units: mg/Kg-dry TestNo: SW6020	16/26/1786 Date: 9/21/2001	Run ID: ICPMS_010922A SeqNo: 2434
Analyte	Result	PQL SPK value SPK Ref Val %REC	CowLimit HighLimit RPD Ref Val	WRPD RPDI imit
Lead	55.95	0.57 28.65 14.08 138	75	1
Sample ID: 0109047-001BMS Client ID: ZZZZZ	SampType: MS Batch ID: 84	TestCode: M_ICPMS_S Units: mg/Kg-dry TestNo: SW6020	Prep Date: 9/21/2001 Analysis Date: 9/22/2001	Run ID: ICPMS_010922A SeqNo: 2441
Analyte	Result	PQL SPK value SPK Ref Val %REC	CowLimit HighLimit RPD Ref Val	%RPD RPDLimit Qual
Lead	42.64	0.57 28.65 14.08 91.3	3 75 125 0	0 .
Sample-ID: 0109028-012AMS Client ID: ZZZZZ	SampType: MS Batch ID: 84	TestCode: M_ICPMS_S Units: mg/Kg-dry TestNo: SW6020 VALL 10 20	Prep Date: 9/21/2001 Analysis Date: 9/22/2001	Run ID: ICPMS_010922A SeqNo: 2452
Analyte	Result	PQL SPK value SPK Ref Val %REC	LowLimit HighLimit RPD Ref Val	%RPD RPDtimit Qual
Qualifiers: ND - Not Dete	ND - Not Detected at the Reporting Limit	S - Spike Recovery outside accepted recovery limits		D Analyte descent in the

J - Analyte detected below quantitation limits

R - RPD outside accepted recovery limits

Analyte detected in the associated Method Blank

Page 5 of 8

Burns & McDonnell CLIENT:

0109048 Work Order:

Project:

27194-4.07, Rogers Park Main

ANALYTICAL QC SUMMARY RELART

BatchID: 84

Sample 19:-0109028-012AMS	SampType: MS	TestCode: M	M ICPMS S	Units: ma/Ka-dry	2	Pren Date:	9/24/2004		Run ID: ICBMS 040022A	
Client ID: ZZZZZ	Batch ID: 84		SW6020	MMI ICHARI	-	Analysis Date:	9/22/2001		SeqNo: 2452	
Analyte	Result	PQL SPK	SPK value SP	SPK Ref Val	%REC	LowLimit - HighLimit - RPD Ref Val	MLIMIK - RPD	Ref Val	%RPD RPDLimit	Qual
Lead	95.55	0.56	28.12	53,64	149	75	125	0	0	4
Sample ID: 0109048-002AMS	SampType: MS	TestCode: M	M_ICPMS_S	Units: mg/Kg-dry		Prep Date:	9/21/2001		Run ID: ICPMS_010922A	42 A2
Client ID; RPM-CS03-01	Batch ID: 84	TestNo: SW	SW6020		₹	Analysis Date:	9/22/2001		SeqNo: 2457	
Analyte	Result	PQL SPK	SPK value SP	SPK Ref Val	%REC	LowLimit Hig	HighLimit RPD	RPD Ref Val	%RPD RPDLimit	Qual
Lead	50.32	0.56	27.96	. 32.34	44.5	75	125	0	0	s
Sample 1D: 0409028-012AMS	SampType: MS	TestCode: M	M_ICPMS_S	Units: mg/Kg-dry	ry	Prep Date:	9/21/2001		Run ID: ICPMS 010922A	2A
Cllent ID; ZZZZZ	Batch ID: 84	TestNo. SW	SW6020	Mal water		Analysis Date:	9/22/2001		SeqNo: 2461	····
Analyte	Result	PQL SPK	SPK value SP	SPK Ref Val	%REC	LowLimit High	HighLimit—RPD Ref Val	Ref Val	%RPD RPDLimit	Onal
Lead	69.79	0.56	28.12	53.64	57.4	75	125	0	Þ	S
Sample ID: 0109047-001BMSB	SampType: MSD	TestCode: M	M_ICPMS_S	Units: mg/Kg-dry	<u>-</u>	Prep Date:	9/21/2001		Run ID: ICPMS 010922A	2A
Client ID: ZZZZZ	Batch ID: 84	TestNo: SW	SW6020	mc1 10/2/61		Analysis Date:	9/22/2001		SeqNo: 2435	-
Analyte	Result	PQL SPK	SPK value SP	SPK Ref Val	%REC	LowLimit Hig	HighLimit RPD	RPD Ref Val	%RPD RPDLimit	Qual
Lead	55.86	0.55	27.49	14.08	143	75	125	36.46	26.8 20	SR
Sample ID: 0109047-001BMSD	SampType: MSD	TestCode: M	M_ICPMS_S	Units: mg/Kg-dry	2	Prep Date:	9/21/2001		Run ID: ICPMS_010922A	2A
Cllent ID: ZZZZZ	Batch ID: 84	TestNo: SW	SW6020		₹	Analysis Date:	9/22/2001		SeqNo: 2442	
Analyte	Result	POL SPK	SPK value SP	SPK Ref Val	%REC	LowLimit Hig	HighLimit RPD Ref Val	Ref Val	%RPD RPDLimit	Qual
Lead	42.1	0.55	27.49	14.08	93.2	75	125	36.46	1.28 20	
Sample-10: 0109028-012AMSD	SampType: MSD	TestCode: M	M_ICPMS_S	Units: mg/Kg-dry[,], Prep Date:	, J., V	, Prep Date:	9/21/2001		Run ID: ICPMS 010922A	2A
Client ID: ZZZZZ	Batch ID: 84	TestNo: SW	SW6020	χ	101 N	vi vnalysis Date:	9/22/2001		SeqNo: 2453	
Analyte	Result	POL SPK	SPK value SP	SPK Ref Val	%REC	LowLimit HighLimit RPD Ref Val	phLimit RPD	Ref Val	%RPD RPDLImit	Qual
m an mary property in the property of the control o	Top a bridge of the second second second second second second second second second second second second second	A the state of the								

Qualifiers:

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

Page 6 of 8

CLIENT: Burns & McDonnell

Work Order: 0109048

27194-4.07, Rogers Park Main

Project:

ANALYTICAL QC SUMMARY REPORT

BatchID: 84

Sample-ID:-0109028-012AMSD	SampType: MSD	TestCode:	le: M_ICPMS_S	S Units: mg/Kg-dry	-dry	Prep Date	Prep Date: 9/21/2001		Run ID: ICPMS_010922A	S_010922A	
Client ID: ZZZZZ	Batch ID: 84	TestNo:	lo: SW6020	MAC 10/261		Analysis Date: 9/22/2001	9/22/2001		SeqNo: 2453		1,1
Analyte	Result	PQL.	SPK value	SPK value SPK Ref Val	%REC	LowLimit	%REC LowLimit HighLimit RPD Ref Val	D'Ref-Val	%RPD R	%RPD RPDLimit Qual	Qual
Lead	120.1	0.61	30.42	53.64	218	75	125	62.69	53.0	20	AR.
Sample ID: 0109048-002AMSD Client ID: RPM-CS03-01	SampType: MSD Batch ID: 84	TestCode: TestNo:	de: M_ICPMS_	M_ICPMS_S Units: mg/Kg-dry SW6020		Prep Date: 9/21/2001	Prep Date: 9/21/2001		Run ID: ICPMS_010922A	S_010922A	
Analyte	Result	Pol	SPK value	SPK value SPK Ref Val	%REC	LowLimit	%REC LowLimit HighLimit RPD Ref Val	PD Ref Val	%RPD RPDLimit		Qual
Lead	67.42	0.57	28.76	32.34	103	75	125	42.97	29.0	20	R.
Sample ID: 0109028-012AMSD SampType: MSD	SampType: MSD	TestCode:	ie: M_ICPMS_S	Units: mg/K	/cup	Prep Date	Prep Date: 9/21/2001		Run ID: ICPMS_010922A	S_010922A	
Client ID: ZZZZZ	Batch ID: 84	TestMo:	lo: SW6020	DJQ (10/2/01	Analysis Date	Analysis Date: 9/22/2001		SeqNo: 2462		
Analyte	Result	PaL	SPK value	SPK Ref Val	%REC	LowLimit	LowLimit HighLimit RPD Ref Val	PD Ref Val	%RPD RPDLIMIT		-Jeng
Lead	107.4	0.61	30.42	53.64	177	75	125	69.79	42.4	20	SR

Qualifiers: ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

Page 7 of

CLIENT: Burns & McDonnell

Work Order: 0109048

27194-4.07, Rogers Park Main

Project:

ANALYTICAL QC SUMMARY REPURT

BatchID: 91

	SampType: MS	TestCode:	le: M_ICPMS_S	S Units: mg/L		Prep Date:	9/23/2001		Run ID: ICPMS_010923A	10923A
Client IU: ZZZZ	Batch ID: 91	TestNo:	lo: SW1312/6020	20	*	Analysis Date:	9/23/2001		SeqNo: 2614	
Analyte	Result	Pal	SPK value	SPK Ref Val	%REC	LowLimit Hi	LowLimit HighLimit RPD Ref Val	?ef Val	, %RPD RPDLimit	imit Qual
Lead	0.483	0.0050	0.5	0.00577	95.4	75	125	0	0	-
Sample ID: 0109047-001BMSD Client ID: ZZZZZ	SampType: MSD Batch ID: 91	TestCode: TestNo:	ie: M_ICPMS_S io: SW1312/6020	S Units: mg/L 20	,	Prep Date: Analysis Date:	9/23/2001 9/23/2001		Run ID: ICPMS_010923A SeqNo: 2615	10923A
Analyte	Result	POL	SPK value	SPK Ref Val	%REC	LowLimit Hi	HighLimit RPD R	RPD Ref Val	%RPD RPDLimit	imit Qual
Lead	0.4709	0.0050	0.5	0.00577	93	75	125	0.483	2.54	20
Sample ID: MBW1 9/23/01 Client ID: ZZZZZ	SampType: MBLK Batch ID: 91	TestCode: TestNo:	te: M_ICPMS_W lo: SW6020	W Units: mg/L	,	Prep Date: Analysis Date:	9/23/2001		Run ID: ICPMS_010923A SeqNo: 2593	10923A
Analyte	Result	PaL	SPK value	SPK Ref Val	%REC	LowLimit Hi	HighLimit RPD R	RPD Ref Val	%RPD RPDLimit	Jimit Qual
Lead	0.00229	0.0010	-							
Sample ID: LCSW1 9/23/01 Client ID: ZZZZZ	SampType: LCS Batch ID: 91	TestCode: TestNo:	de: M_ICPMS_W	W Units: mg/L	1	Prep Date: Analysis Date:	9/23/2001 9/23/2001		Run ID: ICPMS_010923A SeqNo: 2594	10923A
Analyte	Result	Pat	SPK value	SPK Ref Val	%REC	LowLimit HighLimit	ghLimit RPD F	RPD Ref Val	%RPD RPDLimit	imit Qual
Lead	0.4932	0.0010	0.5	0.00229	98.2	80	120	0	0	æ
Sample ID: LCSDW1 9/23/01 Client ID: ZZZZZ	SampType: LCSD · Batch ID: 91	TestCode: TestNo:	de: M_ICPMS_W	W Units: mg/L	,	Prep Date: Analysis Date:	9/23/2001 9/23/2001		Run ID: ICPMS_010923A SeqNo: 2595	10923A
Analyte	Result	Pal	SPK value	SPK Ref Val	%REC	LowLimit Hi	HighLimit RPD F	RPD Ref Val	%RPD RPDLimit	-imit Qual
Lead	0.496	0.0010	0.5	0.00229	98.7	80	120 (0.4932	0.566	20 B

AIR SAMPLE DATA EVALUATION MEMORANDA ROGERS PARK MAIN MGP SITE

BURNS & McDONNELL

Client: Peoples Gas

Site: Rogers Park Main and Pond MGP Site

Project No.: 27194

File No.: I.7

Title: Data Validation of Air Samples

Collected on July 20, 2001 through September 26, 2001

Prepared By: C. Marhoefer Date: October 10, 2001 Checked By: K. Nichols Date: October 15, 2001

PURPOSE

The purpose of this document is to present the evaluation and validation of air sample analytical results.

VALIDATION CRITERIA

The evaluation and validation consisted of the following:

- · Checked analytical holding times.
- Checked surrogate recoveries.
- · Reviewed laboratory blank analyses.
- Reviewed laboratory control standards (LCS)
- Reviewed laboratory annotations.

SAMPLING EFFORT

Ten-hour, time-average air samples were collected using Summa[®] canisters along the perimeter of the Rogers Park Pond and Main Site in Chicago, Illinois between July 20 and September 26, 2001. Four stations were set up at the north, south, east and west sides of the remediation area respectively. A total of one hundred and thirty-eight (138) air samples were collected and analyzed. Two of the aforementioned samples (RPM-E-ERI-SUM and RPM-N-ERI-SUM) were duplicates analyzed by Environmental Research Institute.

LABORATORY

Samples were analyzed by Air Toxics Ltd. of Folsom, California and Environmental Research Institute (ERI) of Storrs, Connecticut.

SAMPLE INFORMATION

Table 1 presents the sample locations, sample designations, analyses requested and date sampled. Table 2 presents the method used to analyze all of the air samples.

HOLDING TIME EVALUATION

Table 3 presents the analytical holding times that were used to evaluate and validate the extractions and analyses performed. In the case of sample RPM-E-ERI-SUM (analyzed by ERI), the first round of BTEX results were suspected to be contaminated by an outside source of toluene during analysis; therefore they were not used. The reanalysis, however, was performed outside of the BTEX holding

time. Consequently, all results for sample RPM-E-ERI-SUM have been qualified estimated "J". All other sample extractions and analyses were performed within the holding time criteria; therefore, no other qualification is necessary.

SURROGATE RECOVERY EVALUATION

Surrogate recoveries were within the acceptable laboratory limits; therefore, no qualification is necessary.

LABORATORY BLANK ANALYSIS EVALUATION

All laboratory blanks were non-detect; therefore, no qualification is necessary.

LABORATORY CONTROL STANDARDS EVALUATION

Laboratory control standards (LCS) were prepared and run for this sampling event. The LCS recovery for o-xylene exceeded the quality control limits for samples RPM-N-SUM-08-08-01, RPM-E-SUM-08-08-01, and RPM-S-SUM-08-27-01. Therefore, o-xylene results for these samples are qualified estimated "J".

LABORATORY ANNOTATION REVIEW

A review of the Air Toxics Ltd. and ERI case narratives indicate that the overall quality of the analytical results is acceptable.

CONCLUSIONS

Laboratory data have been reviewed and are acceptable for use. The overall quality of the analytical results was found to be good.

REFERENCES

The following reference documents were used:

- United States Environmental Protection Agency (USEPA), 1994. Contract Laboratory Program National Functional Guidelines for Organic Data Review, February.
- (2) U.S. EPA, 1999. Compendium of Methods for the Determination of Toxic Organic Compounds in Ambient Air: Method TO-14, 2nd Ed., January.

	List of Sample Stati	Table 1 ons, Analyses, and Dates Sa	impled
Station Location 1	Sample Designation	Analyses	Data Sampled
North	RPM-N-SUM-DATE	Benzene, toluene, Ethylbenzene, M,P-Xylenes, O-Xylene	July 20, 2001 through September 26, 2001
South	RPM-S-SUM-DATE	Benzene, toluene, Ethylbenzene, M,P-Xylenes, O-Xylene	July 20, 2001 through September 26, 2001
East	RPM-E-SUM-DATE	Benzene, toluene, Ethylbenzene, M,P-Xylenes, O-Xylene	July 20, 2001 through September 26, 2001
West	RPM-W-SUM-DATE	Benzene, toluene, Ethylbenzene, M,P-Xylenes, O-Xylene	July 20, 2001 through September 26, 2001

¹ Every third day all four locations were sampled for the two days in between, sample locations were determined by the wind direction.

Table 27	
Analytical Methods	
Parameter	Analytical Method ¹
Benzene, toluene, ethylbenzene, total xylenes (BTEX)	TO-14A

¹ USEPA 2001

Tal Soil Analytical	ole 3. Holding Times ⁽¹⁾
Analyses	Holding Time From Sample Collection
Summa [®] Canisters	30 days
BTEX	14 days

Note: (1) USEPA 1998 and NET 1997.

AIR ANALYTICAL RESULTS DATA SHEETS ROGERS PARK MAIN MGP SITE

WORK ORDER #: 0107450

Work Order Summary

CLIENT:

Ms. Kim Nichols

BILL TO:

Ms. Margaret Kelley

Burns & McDonnell

Burns & McDonnell

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RPM-27194

FAX:

630-990-0301

PROJECT#

27194 Rogers Park Main

DATE RECEIVED:

7/23/01

DATE COMPLETED:

7/30/01

			KECEIFI
FRACTION#	<u>NAME</u>	<u>TEST</u>	VAC./PRES.
91A	RPM-E-SUM-07-20-01	TO-14	12.5 "Hg
02A	RPM-S-SUM-07-20-01	TO-14	12.5 "Hg
03A	RPM-W-SUM-07-20-01	TO-14	12.5 "Hg
04A	Lab Blank	TO-14	NA

CERTIFIED BY:

Sinda d. Fruman

O7/30/01

Laboratory Director

Certification numbers: CA ELAP - 1149, NY ELAP - 11291, UT ELAP - E-217, AZ ELAP - AZ0567, LA - AI 30763

LABORATORY NARRATIVE TO-14

Burns & McDonnell Workorder# 0107450

Three 6 Liter Summa Canister samples were received on July 23, 2001. The laboratory performed analysis via EPA Method TO-14 using GC/MS in the full scan mode. The method involves concentrating up to 0.5 liters of air. The concentrated aliquot is then flash vaporized and swept through a water management system to remove water vapor. Following dehumidification, the sample passes directly into the GC/MS for analysis. See the data sheets for the reporting limits for each compound.

During the five point calibration, two low-level standards are used. The low-level standard for TO-14 compounds is spiked at 0.5 ppbv and represents the reporting limit for these compounds. The low-level standard for the non-TO-14 compounds is spiked at 2.0 ppbv and represents the reporting limit for these compounds. The TO-14 compounds are present in both standards but are excluded from reporting in the 2.0 ppbv standard since a lower level is already included in the curve.

Method modifications taken to run these samples include:

Requirement	TO-14	ATL Modifications
Internal standard retention times.	Not specified.	Within 0.50 minutes of most recent daily CCV internal standards
Internal standard recoveries.	Not specified.	Within 40% of the daily CCV internal standard area for blanks and samples.
Initial calibration criteria.	Not specified.	RSD of 30% or less for standard compounds, 40% or less for non-standard and polar compounds
Continuing calibration verification criteria	Not specified.	70 - 130% for at least 90% of standard compounds, 60 - 140% for at least 80% of non-standard and polar compounds
Response factor for quantitation.	Average response factor (ICAL).	Average response factor (ICAL).

Receiving Notes

There were no receiving discrepancies.

Analytical Notes

There were no analytical discrepancies.

Definition of Data Qualifying Flags

Seven qualifiers may have been used on the data analysis sheets and indicates as follows:

- B Compound present in laboratory blank greater than reporting limit(background subtraction not performed).
 - J Estimated value.
 - E Exceeds instrument calibration range.
 - S Saturated peak.
 - Q Exceeds quality control limits.
 - U Compound analyzed for but not detected above the reporting limit.
 - N The identification is based on presumptive evidence.

SAMPLE NAME: RPM-E-SUM-07-20-01

ID#: 0107450-01A

File Name: Dik Factor:	1073005 2,30	ing and the second seco	Date of Collect Date of Analy	:tion: 7/20/01 sis: 7/30/01
Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	Amount (ppbv)	Amount (uG/m3)
Benzene	1.2	3.7	Not Detected	Not Detected
Toluene	1.2	4.4	2.7	10
Ethyl Benzene	1.2	5.1	Not Detected	Not Detected
m,p-Xylene	1.2	5.1	1.3	5.6
o-Xylene	1.2	5.1	Not Detected	Not Detected
Container Type: 6 Liter Summa	Canister			
Surrogates		%Recovery		Method Limits
1,2-Dichloroethane-d4		111		70-130
Toluene-d8		88		70-130
4-Bromofluorobenzene		81		70-130

SAMPLE NAME: RPM-S-SUM-07-20-01

ID#: 0107450-02A

File Name: Dil. Factor:	1073006 2.30		Date of Collect Date of Analy	ction: 7/20/01 sis: 7/30/01
Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	Amount (ppbv)	Amount (uG/m3)
Benzene	1.2	3.7	Not Detected	Not Detected
Toluene	1.2	4.4	9.1	35
Ethyl Benzene	1.2	5.1	Not Detected	Not Detected
m,p-Xylene	1.2	5.1	1.8	7.8
o-Xylene	1.2	5.1	Not Detected	Not Detected
Container Type: 6 Liter Summa	ı Canister	%Recovery		Method Limits
1,2-Dichloroethane-d4		116		70-130
Toluene-d8		91		70-130
4-Bromofluorobenzene		77		70-130

SAMPLE NAME: RPM-W-SUM-07-20-01

ID#: 0107450-03A

File Name: Dil. Factor	1073007		Date of Collect Date of Analy	
Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	Amount (ppbv)	Amount (uG/m3)
Benzene	1.2	3.7	Not Detected	Not Detected
Toluene	1.2	4.4	5.2	20
Ethyl Benzene	1.2	5.1	Not Detected	Not Detected
m,p-Xylene	1.2	5.1	2.3	10
o-Xylene	1.2	5.1	Not Detected	Not Detected
Container Type: 6 Liter Summa	a Canister			Method
Surrogates		%Recovery		Limits
1,2-Dichloroethane-d4		112		70-130
Toluene-d8		90		70-130
4-Bromofluorobenzene		78		70-130

SAMPLE NAME: Lab Blank

ID#: 0107450-04A

File Name:	1073004 - 1.00		: Date of Collect Date of Analy	1000
Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	Amount (ppbv)	Amount (uG/m3)
Benzene	0.50	1.6	Not Detected	Not Detected
Toluene	0.50	1.9	Not Detected	Not Detected
Ethyl Benzene	0.50	2.2	Not Detected	Not Detected
m,p-Xylene	0.50	2.2	Not Detected	Not Detected
o-Xylene	0.50	2.2	Not Detected	Not Detected
Container Type: NA - Not Appli	cable			** ')
Surrogates		%Recovery		Method Limits
1,2-Dichloroethane-d4		110		70-130
Toluene-d8		85	•	70-130
4-Bromofluorobenzene		79		70-130

CHAIN-OF-CUSTODY RECORD AN ENVIRONMENTAL ANALYTICAL LABORATORY

Sample Transportation Notice

handling or shipping of these samples. Relinquishing signature also indicates agreement to hold harmless, defend, and indemnify Air Toxics Limited against any claim, demand, or action of any kind, related to the collection, handling, or shipping of samples. D.O.T. Hotline (800) 467-4922 Relinquishing signature on this document indicates that sample is being shipped in compliance FOLSOM, CA 95630-4719 ordinances of any kind. Air Toxics Limited assumes no liability with respect to the collection, with all applicable local, State, Federal, national, and international laws, regulations and (916) 985-1000 FAX: (916) 985-1020 180 BLUE RAVINE ROAD, SUITE B

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FOREY M	Shipper Name) (- g	elinguished Bv: (Signature) Date/Time	elinquished By: (Signature) (Date/Time	Wate/Ilme						H 127m-W-SMM-07-20-01	PPM-N-SHM-07-20-01	1 RAW S. SUM-07-20-01	RPM-E-SUM-07-20-01	Field Sample I.D.	Collected By: Signature Landing	The same of the sa	hone ((180) 940-0800	company During & M.	erson MANESPRET KEUGY	-
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WORK ORDER #: 0107502

Work Order Summary

CLIENT:

Ms. Kim Nichols

BILL TO:

Ms. Margaret Kelley

Burns & McDonnell

Burns & McDonnell

2601 W. 22nd St.

2601 W. 22nd St.

Oakbrook, IL 60523-1229

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630-990-0300x226

P.O. # RPM-27194

FAX:

630-990-0301

PROJECT#

27194 Rogers Park Main

DATE RECEIVED:

7/25/01

DATE COMPLETED:

8/1/01

			RECEIPT
FRACTION#	NAME	TEST	VAC./PRES.
01A	RPM-E-SUM-07-23-01	TO-14	11.0 "Hg
02A	RPM-S-SUM-07-23-01	TO-14	10.0 "Hg
03A	RPM-N-SUM-07-23-01	TO-14	7.0 "Hg
04A	RPM-W-SUM-07-23-01	TO-14	10.5 "Hg
05A	Lab Blank	TO-14	NA NA
05B	Lab Blank	TO-14	NA

CERTIFIED BY:

Sinda d. Fruman

DATE: 08/01/01

Laboratory Director

Certfication numbers: CA ELAP - 1149, NY ELAP - 11291, UT ELAP - E-217, AZ ELAP - AZ0567, LA - AI 30763

180 BLUE RAVINE ROAD, SUITE B FOLSOM, CA - 95630 (916) 985-1000 . (800) 985-5955 . FAX (916) 985-1020

LABORATORY NARRATIVE TO-14

Burns & McDonnell Workorder# 0107502

Four 6 Liter Summa Canister samples were received on July 25, 2001. The laboratory performed analysis via EPA Method TO-14 using GC/MS in the full scan mode. The method involves concentrating up to 0.5 liters of air. The concentrated aliquot is then flash vaporized and swept through a water management system to remove water vapor. Following dehumidification, the sample passes directly into the GC/MS for analysis. See the data sheets for the reporting limits for each compound.

During the five point calibration, two low-level standards are used. The low-level standard for TO-14 compounds is spiked at 0.5 ppbv and represents the reporting limit for these compounds. The low-level standard for the non-TO-14 compounds is spiked at 2.0 ppbv and represents the reporting limit for these compounds. The TO-14 compounds are present in both standards but are excluded from reporting in the 2.0 ppbv standard since a lower level is already included in the curve.

Method modifications taken to run these samples include:

Requirement	TO-14	ATL Modifications
Internal standard retention times.	Not specified.	Within 0.50 minutes of most recent daily CCV internal standards
Internal standard recoveries.	Not specified.	Within 40% of the daily CCV internal standard area for blanks and samples.
Initial calibration criteria.	Not specified.	RSD of 30% or less for standard compounds, 40% or less for non-standard and polar compounds
Continuing calibration verification criteria	Not specified.	70 - 130% for at least 90% of standard compounds, 60 - 140% for at least 80% of non-standard and polar compounds
Response factor for quantitation.	Average response factor (ICAL).	Average response factor (ICAL).

Receiving Notes

There were no receiving discrepancies.

Analytical Notes

There were no analytical discrepancies.

Definition of Data Qualifying Flags

Seven qualifiers may have been used on the data analysis sheets and indicates as follows:

- B Compound present in laboratory blank greater than reporting limit(background subtraction not performed).
 - J Estimated value.
 - E Exceeds instrument calibration range.
 - S Saturated peak.
 - Q Exceeds quality control limits.
 - U Compound analyzed for but not detected above the reporting limit.
 - N The identification is based on presumptive evidence.

SAMPLE NAME: RPM-E-SUM-07-23-01

ID#: 0107502-01A

File Name: Dil. Factor:	c072922		Date of Collection	
Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	Amount (ppbv)	Amount (uG/m3)
Benzene	1.1	3.4	Not Detected	Not Detected
Toluene	1.1	4.0	1.5	5.8
Ethyl Benzene	1.1	4.7	Not Detected	Not Detected
m,p-Xylene	1.1	4.7°	1.1	4.7
o-Xylene	1.1	4.7	Not Detected	Not Detected
Container Type: 6 Liter Summa	Canister			اد د داند ه
Surrogates		%Recovery		Method Limits
1,2-Dichloroethane-d4		100		70-130
Toluene-d8		101		70-130
4-Bromofluorobenzene		112		70-130

SAMPLE NAME: RPM-S-SUM-07-23-01

ID#: 0107502-02A

File Name:	c072923 ,	The state of the s	Date of Collection: 7/23/01 Date of Analysis: 7/30/01			
Dil Factor	2.01					
Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	Amount (ppbv)	Amount (uG/m3)		
Benzene	1.0	3.3	1.5	5.0		
Toluene	1.0	3.8	3.8	15		
Ethyl Benzene	1.0	4.4	1.2	5.6		
m,p-Xylene	1.0	4.4	4.1	18		
o-Xylene	1.0	4.4	1.9	8.5		
Container Type: 6 Liter Summa Ca	nister					
Surrogates	,	%Recovery		Method Limits		
1,2-Dichloroethane-d4		98		70-130		
Toluene-d8		99		70-130		
4-Bromofluorobenzene		108		70-130		

SAMPLE NAME: RPM-N-SUM-07-23-01

ID#: 0107502-03A

File Name:	1073008	Specification recognises	Date of Collection, 7/23/01			
Dil. Factor.	1.75		Date of Analysis: 7/30/01-1			
Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	Amount (ppbv)	Amount (uG/m3)		
Benzene	0.88	2.8	Not Detected	Not Detected		
Toluene	0.88	3.4	1.5	5.8		
Ethyl Benzene	0.88	3.9	Not Detected	Not Detected		
m,p-Xylene	0.88	3.9	1.4	6.4		
o-Xylene	0.88	3.9	Not Detected	Not Detected		
Container Type: 6 Liter Summa (Canister					
Surrogates		%Recovery		Method Limits		
1.2-Dichloroethane-d4		118		70-130		
Toluene-d8	•	89		70-130		
4-Bromofluorobenzene		77		70-130		

SAMPLE NAME: RPM-W-SUM-07-23-01

ID#: 0107502-04A

File Name: - Dila Factor:	1073009 2.06		Date of Collection: 7/23/01 Date of Analysis: 7/30/01			
Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	Amount (ppbv)	Amount (uG/m3)		
Benzene	1.0	3.3	2.6	8.4		
Toluene	1.0	3.9	4.5	17		
Ethyl Benzene	1.0	4.5	Not Detected	Not Detected		
m,p-Xylene	1.0	4.5	2.3	10		
o-Xylene	1.0	4.5	1.3	5.7		
Container Type: 6 Liter Summa	Canister			Method		
Surrogates		%Recovery		Limits		
1,2-Dichloroethane-d4		113		70-130		
Toluene-d8		90		70-130		
4-Bromofluorobenzene		76		70-130		

SAMPLE NAME: Lab Blank

ID#: 0107502-05A

File Name:	c072904		Date of Collection: NA			
Dil Factor	1.00		Date of Analysis: 7/29/01			
Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	Amount (ppbv)	Amount (uG/m3)		
Benzene	0.50	1.6	Not Detected	Not Detected		
Toluene	0.50	1.9	Not Detected	Not Detected		
Ethyl Benzene	0.50	2.2	Not Detected	Not Detected		
m,p-Xylene	0.50	2.2	Not Detected	Not Detected		
o-Xylene	0.50	2.2	Not Detected	Not Detected		
Container Type: NA - Not Applie	cable					
Surrogates		%Recovery		Method Limits		
1,2-Dichloroethane-d4		98		70-130		
Toluene-d8		100		70-130		
4-Bromofluorobenzene		102		70-130		

SAMPLE NAME: Lab Blank

ID#: 0107502-05B

File Name: Dil. Factor:	1073004 1.00		Date of Collection Date of Analy	
Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	Amount (ppbv)	Amount (uG/m3)
Benzene	0.50	1.6	Not Detected	Not Detected
Toluene	0.50	1.9	Not Detected	Not Detected
Ethyl Benzene	0.50	2.2	Not Detected	Not Detected
m,p-Xylene	0.50	2.2	Not Detected	Not Detected
o-Xylene	0.50	2.2	Not Detected	Not Detected
Container Type: NA - Not Appli	cable			
				Method
Surrogates		%Recovery		Limits
1,2-Dichloroethane-d4		110		70-130
Toluene-d8		85		70-130
4-Bromofluorobenzene		79		70-130

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CHAIN-OF-CUSTODY RECORD

Sample Transportation Notice
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WORK ORDER #: 0107538

Work Order Summary

CLIENT:

Ms. Kim Nichols

BILL TO:

Ms. Margaret Kelley

Burns & McDonnell

Burns & McDonnell 2601 W. 22nd St.

2601 W. 22nd St.

Oakbrook, IL 60523-1229

Oakbrook, IL 60523-1229

PHONE:

630-990-0300x226

RPM-27194

FAX:

630-990-0301

27194 Rogers Park Main

DATE RECEIVED:

7/26/01

DATE COMPLETED:

8/2/01

			RECEIPT
FRACTION#	NAME	<u>TEST</u>	<u>VAC/PRES.</u>
01A	RPM-N-SUM-07-24-01	TO-14	3.5 Hg
02A	RPM-S-SUM-07-24-01	TO-14	8.5 "Hg
03A	RPM-W-SUM-07-24-01	TO-14	8.5 "Hg
03AA	RPM-W-SUM-07-24-01 Duplicate	TO-14	8.5 "Hg
04A	RPM-E-SUM-07-24-01	TO-14	9.5 "Hg
<u> </u>	Method Spike	TO-14	NA
2 06A	Lab Blank	TO-14	NA:

CERTIFIED BY:

Sinda d. Frum

08/02/01

Laboratory Director

Certification numbers: CA ELAP - 1149, NY ELAP - 11291, UT ELAP - E-217, AZ ELAP - AZ0567, LA -AI30763

180 BLUE RAVINE ROAD, SUITE B FOLSOM, CA - 95630 (916) 985-1000 . (800) 985-5955 . FAX (916) 985-1020

LABORATORY NARRATIVE TO-14

Burns & McDonnell Workorder# 0107538

Four 6 Liter Summa Canister samples were received on July 26, 2001. The laboratory performed analysis via EPA Method TO-14 using GC/MS in the full scan mode. The method involves concentrating up to 0.5 liters of air. The concentrated aliquot is then flash vaporized and swept through a water management system to remove water vapor. Following dehumidification, the sample passes directly into the GC/MS for analysis. See the data sheets for the reporting limits for each compound.

During the five point calibration, two low-level standards are used. The low-level standard for TO-14 compounds is spiked at 0.5 ppbv and represents the reporting limit for these compounds. The low-level standard for the non-TO-14 compounds is spiked at 2.0 ppbv and represents the reporting limit for these compounds. The TO-14 compounds are present in both standards but are excluded from reporting in the 2.0 ppbv standard since a lower level is already included in the curve.

Method modifications taken to run these samples include:

Requirement	TO-14	ATL Modifications
Internal standard retention times.	Not specified.	Within 0.50 minutes of most recent daily CCV internal standards
Internal standard recoveries.	Not specified.	Within 40% of the daily CCV internal standard area for blanks and samples.
Initial calibration criteria.	Not specified.	RSD of 30% or less for standard compounds, 40% or less for non-standard and polar compounds
Continuing calibration verification criteria	Not specified.	70 - 130% for at least 90% of standard compounds, 60 - 140% for at least 80% of non-standard and polar compounds
Response factor for quantitation.	Average response factor (ICAL).	Average response factor (ICAL).

Receiving Notes

There were no receiving discrepancies.

Analytical Notes

The RPD of duplicate samples RPM-W-SUM-07-24-01 and RPM-W-SUM-07-24-01 Duplicate exceeded acceptance limits for some target species due target compound concentrations present at less than 5X the reporting limit. There is no effect on data quality.

Definition of Data Qualifying Flags

Seven qualifiers may have been used on the data analysis sheets and indicates as follows:

- B Compound present in laboratory blank greater than reporting limit(background subtraction not performed).
 - J Estimated value.
 - E Exceeds instrument calibration range.
 - S Saturated peak.

- Q Exceeds quality control limits.
 U Compound analyzed for but not detected above the reporting limit.
- N The identification is based on presumptive evidence.

SAMPLE NAME: RPM-N-SUM-07-24-01

ID#: 0107538-01A

File Name Dil. Factor:	1.87		Date of Collection Date of Analy	The second of the second
Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	Amount (ppbv)	Amount (uG/m3)
Benzene	0.94	3.0	Not Detected	Not Detected
Toluene	0.94	3.6	1.1	4.1
Ethyl Benzene	0.94	4.1	Not Detected	Not Detected
m,p-Xylene	0.94	4.1	Not Detected	Not Detected
o-Xylene	0.94	4.1	Not Detected	Not Detected
Container Type: 6 Liter Summa	Canistér			Method
Surrogates		%Recovery		Limits
1,2-Dichloroethane-d4		112		70-130
Toluene-d8		90		70-130
4-Bromofluorobenzene		7 9		70-130

SAMPLE NAME: RPM-S-SUM-07-24-01

ID#: 0107538-02A

File Name Dil. Factor:			Date of Collect Date of Analy	
Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	Amount (ppbv)	Amount (uG/m3)
Benzene	0.94	3.0	Not Detected	Not Detected
Toluene	0.94	3.6	1.0	4.0
Ethyl Benzene	0.94	4.1	Not Detected	Not Detected
m,p-Xylene	0.94	4.1	1.0	4.5
o-Xylene	0.94	4.1	Not Detected	Not Detected
Container Type: 6 Liter Summa	Canister			
Surrogates		%Recovery		Method Limits
1,2-Dichloroethane-d4		118		70-130
Toluene-d8		96		70-130
4-Bromofluorobenzene		82		70-130

SAMPLE NAME: RPM-W-SUM-07-24-01

ID#: 0107538-03A

File Name:	2 to 1073115		Date of Collec	
Dil Factor.	1.87		Date of Analy	sis: 7/31/01:
Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	Amount (ppbv)	Amount (uG/m3)
Benzene	0.94	3.0	Not Detected	Not Detected
Toluene	0.94	3.6	1.3	5.2
Ethyl Benzene	0.94	4.1	Not Detected	Not Detected
m,p-Xylene	0.94	4.1	1.0	4.5
o-Xylene	0.94	4.1 	Not Detected	Not Detected
Container Type: 6 Liter Summa	Canister			
Surrogates		.%Recovery		Method Limits
1,2-Dichloroethane-d4		111		70-130
Toluene-d8		90		70-130
4-Bromofluorobenzene		83		70-130

SAMPLE NAME: RPM-W-SUM-07-24-01 Duplicate

ID#: 0107538-03AA

File Name: Dil Factor:			Date of Collect Date of Analy	tion: 7/24/01 sis: 7/31/01
Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	Amount (ppbv)	Amount (uG/m3)
Benzene	0.94	3.0	Not Detected	Not Detected
Toluene	0.94	3.6	1.2	4.6
Ethyl Benzene	0.94	4.1	Not Detected	Not Detected
m,p-Xylene	0.94	4.1	Not Detected	Not Detected
o-Xylene	0.94	4.1	Not Detected	Not Detected
Container Type: 6 Liter Summa	Canister			Method
Surrogates		%Recovery		Limits
1,2-Dichloroethane-d4		114		70-130
Toluene-d8		92		70-130
4-Bromofluorobenzene		82		70-130

SAMPLE NAME: RPM-E-SUM-07-24-01

ID#: 0107538-04A

File Name:	1.96 1.14		Date of Collect Date of Analy	
Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	Amount (ppbv)	Amount (uG/m3)
Benzene	0.98	3.2	Not Detected	Not Detected
Toluene	0.98	3.8	1.7	6.6
Ethyl Benzene	0.98	4.3	Not Detected	Not Detected
m,p-Xylene	0.98	4.3	1.5	6.8
o-Xylene	0.98	4.3	Not Detected	Not Detected
Container Type: 6 Liter Summa	Canister			
Surrogates		%Recovery		Method Limits
1,2-Dichloroethane-d4		112		70-130
Toluene-d8		92		70-130
4-Bromofluorobenzene		80		70-130

SAMPLE NAME: Method Spike

ID#: 0107538-05A

File Name:	- 1073103 \	ar e regulari di Neste di Nes	Date of Collection, NA
Dil. Factor, Table 1997 See See See See See See See See See Se	e ki ji rete ku 1,00 ki ji ku ji ji		Date of Analysis: 7/31/01
Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	%Recovery
Benzene	0.50	1.6	96
Toluene	0.50	1,9	95
Ethyl Benzene	0.50	2.2	93
m,p-Xylene	0.50	2.2	100
o-Xylene	0.50	2.2	102
Container Type: NA - Not Appl	icable		
Surrogates		%Recovery	Method Limits
1,2-Dichloroethane-d4		108	70-130
Toluene-d8		91	70-130
4-Bromofluorobenzene		88	70-130

SAMPLE NAME: Lab Blank

ID#: 0107538-06A

File Name	i073108		Date of Collec	Note that the second second
Dil Factory	1.00		Date of Analy	sis: 7/31/01
Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	Amount (ppbv)	Amount (uG/m3)
Benzene	0.50	1.6	Not Detected	Not Detected
Toluene	0.50	1.9	Not Detected	Not Detected
Ethyl Benzene	0.50	2.2	Not Detected	Not Detected
m,p-Xylene	0.50	2.2	Not Detected	Not Detected
o-Xylene	0.50	2.2	Not Detected	Not Detected
Container Type: NA - Not Appli	cable			
Surrogates		%Recovery		Method Limits
1,2-Dichloroethane-d4		103		70-130
Toluene-d8		, 82		70-130
4-Bromofluorobenzene		74		70-130

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WORK ORDER #: 0107560

Work Order Summary

CLIENT:

Ms. Kim Nichols

Burns & McDonnell 2601 W. 22nd St.

Oakbrook, IL 60523-1229

BILL TO:

Ms. Margaret Kelley

Burns & McDonnell 2601 W. 22nd St.

Oakbrook, IL 60523-1229

PHONE:

630-990-0300x226

P.O. #

RPM-27194

FAX:

630-990-0301

PROJECT#

27194 Rogers Park Main

DATE RECEIVED:

7/27/01

DATE COMPLETED:

8/3/01

FRACTION#

NAME

RPM-W-Sum-07-25-01

TEST TO-14

RECEIPT VACJPRES. 8.0 "IIg

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Lab Blank

TO-14

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CERTIFIED BY:

Sinda d. Fruman

08/03/01 DATE:

Laboratory Director

Certfication numbers: CA ELAP - 1149, NY ELAP - 11291, UT ELAP - E-217, AZ ELAP - AZ0567, LA -AI30763

180 BLUE RAVINE ROAD, SUITE B FOLSOM, CA - 95630 (916) 985-1000 . (800) 985-5955 . FAX (916) 985-1020

LABORATORY NARRATIVE TO-14

Burns & McDonnell Workorder# 0107560

One 6 Liter Summa Canister sample was received on July 27, 2001. The laboratory performed analysis via EPA Method TO-14 using GC/MS in the full scan mode. The method involves concentrating up to 0.5 liters of air. The concentrated aliquot is then flash vaporized and swept through a water management system to remove water vapor. Following dehumidification, the sample passes directly into the GC/MS for analysis. See the data sheets for the reporting limits for each compound.

During the five point calibration, two low-level standards are used. The low-level standard for TO-14 compounds is spiked at 0.5 ppbv and represents the reporting limit for these compounds. The low-level standard for the non-TO-14 compounds is spiked at 2.0 ppbv and represents the reporting limit for these compounds. The TO-14 compounds are present in both standards but are excluded from reporting in the 2.0 ppbv standard since a lower level is already included in the curve.

Method modifications taken to run these samples include:

Requirement	TO-14	ATL Modifications
Internal standard retention times.	Not specified.	Within 0.50 minutes of most recent daily CCV internal standards
Internal standard recoveries.	Not specified.	Within 40% of the daily CCV internal standard area for blanks and samples.
Initial calibration criteria.	Not specified.	RSD of 30% or less for standard compounds, 40% or less for non-standard and polar compounds
Continuing calibration verification criteria	Not specified.	70 - 130% for at least 90% of standard compounds, 60 - 140% for at least 80% of non-standard and polar compounds
Response factor for quantitation.	Average response factor (ICAL).	Average response factor (ICAL).

Receiving Notes

There were no receiving discrepancies.

Analytical Notes

There were no analytical discrepancies.

Definition of Data Qualifying Flags

Seven qualifiers may have been used on the data analysis sheets and indicates as follows:

- B Compound present in laboratory blank greater than reporting limit(background subtraction not performed).
 - J Estimated value.
 - E Exceeds instrument calibration range.
 - S Saturated peak.
 - Q Exceeds quality control limits.
 - U Compound analyzed for but not detected above the reporting limit.
 - N The identification is based on presumptive evidence.

SAMPLE NAME: RPM-W-Sum-07-25-01

ID#: 0107560-01A

File Names	1073118		Date of Collec	tion: 7/25/01
Dil. Factor.	1,83 mag - 1,83 mag - 1	enteres de la companya de la companya de la companya de la companya de la companya de la companya de la company La companya de la companya de la companya de la companya de la companya de la companya de la companya de la co	Date of Analy	sis, 7/31/01
Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	Amount (ppbv)	Amount (uG/m3)
Benzene	0.92	3.0	Not Detected	Not Detected
Toluene	0.92	3.5	Not Detected	Not Detected
Ethyl Benzene	0.92	4.0	Not Detected	Not Detected
m,p-Xylene	0.92	4.0	Not Detected	Not Detected
o-Xylene	0.92	4.0	Not Detected	Not Detected
Container Type: 6 Liter Summa	ı Canister		<i>:</i>	
				Method
Surrogates		%Recovery		Limits
1,2-Dichloroethane-d4		111		70-130
Toluene-d8		. 92		70-130
4-Bromofluorobenzene		80		70-130

SAMPLE NAME: Lab Blank

ID#: 0107560-02A

File Name:	1.00		Date of Collection: NA Date of Analysis: 7/31/01	
Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	Amount (ppbv)	Amount (uG/m3)
Benzene	0.50	1.6	Not Detected	Not Detected
Toluene	0.50	1.9	Not Detected	Not Detected
Ethyl Benzene	0.50	2.2	Not Detected	Not Detected
m,p-Xylene	0.50	2.2	Not Detected	Not Detected
o-Xylene	0.50	2.2	Not Detected	Not Detected
Container Type: NA - Not Appli	cable			
Surrogates		%Recovery		Method Limits
1,2-Dichloroethane-d4		103		70-130
Toluene-d8		82		70-130
4-Bromofluorobenzene		74		70-130

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WORK ORDER #: 0107594

Work Order Summary

CLIENT:

Ms. Kim Nichols

BILL TO:

Ms. Margaret Kelley

Burns & McDonnell

Burns & McDonnell

2601 W. 22nd St.

2601 W. 22nd St.

Oakbrook, IL 60523-1229

Oakbrook, IL 60523-1229

PHONE:

630-990-0300x226

P.O. #

RPM-27194-4.07

FAX:

630-990-0301

PROJECT#

27194 Rogers Park Main

DATE RECEIVED:

7/28/01

DATE COMPLETED:

8/2/01

			RECEIPT
FRACTION#	NAME	<u>TEST</u>	<u>VACJI RES.</u>
01A	RPM-N-SUM-07-26-01	TO-14	0.0 Hg
02A	kPM-W-SUM-07-26-01	TO-14	. 0 "Eg
03A	RPM-N-SUM-07-27-01	TO-14	9.5 "Hg
04A	RPM-S-SUM-07-27-01	TO-14	9.5 "Hg
05A	RPM-E-SUM-07-27-01	TO-14	9.0 "Hg
06A	RPM-W-SUM-07-27-01	TO-14	10.5 "Hg
● 07A	Lab Blank	TO-14	NA
_			

CERTIFIED BY:

Sinda d. Frumas

08/03/01

Laboratory Director

Certfication numbers: CA ELAP - 1149, NY ELAP - 11291, UT ELAP - E-217, AZ ELAP - AZ0567, LA -AI30763

LABORATORY NARRATIVE TO-14

Burns & McDonnell Workorder# 0107594

Six 6 Liter Summa Canister samples were received on July 28, 2001. The laboratory performed analysis via EPA Method TO-14 using GC/MS in the full scan mode. The method involves concentrating up to 0.5 liters of air. The concentrated aliquot is then flash vaporized and swept through a water management system to remove water vapor. Following dehumidification, the sample passes directly into the GC/MS for analysis. See the data sheets for the reporting limits for each compound.

During the five point calibration, two low-level standards are used. The low-level standard for TO-14 compounds is spiked at 0.5 ppbv and represents the reporting limit for these compounds. The low-level standard for the non-TO-14 compounds is spiked at 2.0 ppbv and represents the reporting limit for these compounds. The TO-14 compounds are present in both standards but are excluded from reporting in the 2.0 ppbv standard since a lower level is already included in the curve.

Method modifications taken to run these samples include:

Requirement	TO-14	ATL Modifications
Internal standard retention times.	Not specified.	Within 0.50 minutes of most recent daily CCV internal standards
Internal standard recoveries.	Not specified.	Within 40% of the daily CCV internal standard area for blanks and samples.
Initial calibration criteria.	Not specified.	RSD of 30% or less for standard compounds, 40% or less for non-standard and polar compounds
Continuing calibration verification criteria	Not specified.	70 - 130% for at least 90% of standard compounds, 60 - 140% for at least 80% of non-standard and polar compounds
Response factor for quantitation.	Average response factor (ICAL).	Average response factor (ICAL).

Receiving Notes

There were no receiving discrepancies.

Analytical Notes

There were no analytical discrepancies.

Definition of Data Qualifying Flags

Seven qualifiers may have been used on the data analysis sheets and indicates as follows:

- B Compound present in laboratory blank greater than reporting limit(background subtraction not performed).
 - J Estimated value.
 - E Exceeds instrument calibration range.
 - S Saturated peak.
 - Q Exceeds quality control limits.
 - U Compound analyzed for but not detected above the reporting limit.
 - N The identification is based on presumptive evidence.

SAMPLE NAME: RPM-N-SUM-07-26-01

ID#: 0107594-01A

File Name ¹ . Dil. Factòr:	1.83		Date of Collection : 7/26/01 Date of Analysis: 8/1/01	
Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	Amount (ppbv)	Amount (uG/m3)
Benzene	0.92	3.0	Not Detected	Not Detected
Toluene	0.92	.3.5	Not Detected	Not Detected
Ethyl Benzene	0.92	4.0	Not Detected	Not Detected
m,p-Xylene	0.92	4.0	Not Detected	Not Detected
o-Xylene	0.92	4.0 	Not Detected	Not Detected
Container Type: 6 Liter Summa	Canister			Method
Surrogates		%Recovery		Limits
1,2-Dichloroethane-d4		112		70-130
Toluene-d8		88		70-130
4-Bromofluorobenzene		79	•	70-130

SAMPLE NAME: RPM-W-SUM-07-26-01

ID#: 0107594-02A

File Name: Dif Factor	1:83		Date of Collection: 7/26/01 Date of Analysis: 8/1/01	
Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	Amount (ppbv)	Amount (uG/m3)
Benzene	0.92	3.0	Not Detected	Not Detected
Toluene	0.92	3.5	Not Detected	Not Detected
Ethyl Benzene	0.92	4.0	Not Detected	Not Detected
m,p-Xylene	0.92	4.0	Not Detected	Not Detected
o-Xylene	0.92	4.0	Not Detected	Not Detected
Container Type: 6 Liter Summa Canister		Method		
Surrogates		%Recovery		Limits
1.2-Dichloroethane-d4		112		70-130
Toluene-d8		88		70-130
4-Bromofluorobenzene		77		70-130

SAMPLE NAME: RPM-N-SUM-07-27-01

ID#: 0107594-03A

1080116		Date of Collec	Date of Collection, 7/27/01	
1.96		Date of Analy	sis. 8/1/01 1961	
Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	Amount (ppbv)	Amount (uG/m3)	
0.98	3.2	Not Detected	Not Detected	
0.98	3.8	Not Detected	Not Detected	
0.98	4.3	Not Detected	Not Detected	
0.98	4.3	Not Detected	Not Detected	
0.98	4.3	Not Detected	Not Detected	
Canister				
	%Recovery		Method Limits	
	113		70-130	
	89		70-130	
•	77		70-130	
	1.96 Rpt. Limit (ppbv) 0.98 0.98 0.98 0.98 0.98	1.96 Rpt. Limit (ppbv) (uG/m3) 0.98 3.2 0.98 3.8 0.98 4.3 0.98 4.3 0.98 4.3 Canister %Recovery 113 89	Rpt. Limit	

SAMPLE NAME: RPM-S-SUM-07-27-01

ID#: 0107594-04A

File Name:	1080117			Date of Collection: 7/27/01	
Dil Factor: Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	Amount (ppbv)	Amount (uG/m3)	
Benzene	0.98	3.2	Not Detected	Not Detected	
Toluene	0.98	3.8	Not Detected	Not Detected	
Ethyl Benzene	0.98	4.3	Not Detected	Not Detected	
m,p-Xylene	0.98	4.3	Not Detected	Not Detected	
o-Xylene	0.98	4.3	Not Detected	Not Detected	
Container Type: 6 Liter Summa	a Canister			Method	
Surrogates		%Recovery		Limits	
1,2-Dichloroethane-d4		108		70-130	
Toluene-d8		89		70-130	
4-Bromofluorobenzene		74		70-130	

SAMPLE NAME: RPM-E-SUM-07-27-01

ID#: 0107594-05A

File Name:	1080118 (6)	tion the second	Date of Collec	Date of Collection: 7/27/01 Date of Analysis: 8/1/01	
Dil. Factor.	1.91	ikalis kalendari para kalendari Propinsi propinsi para kalendari	Date of Analy		
Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	Amount (ppbv)	Amount (uG/m3)	
Benzene	0.96	3.1	9.6	31	
Toluene	0.96	3.6	1.7	6.4	
Ethyl Benzene	0.96	4.2	2.1	9.4	
m,p-Xylene	0.96	4.2	2.9	13	
o-Xylene	0.96	4.2	1.4	6.2	
Container Type: 6 Liter Summa	a Canister				
Surrogates		%Recovery		Method Limits	
1,2-Dichloroethane-d4		114		70-130	
Toluene-d8		90		70-130	
4-Bromofluorobenzene		78		70-130	

SAMPLE NAME: RPM-W-SUM-07-27-01

ID#: 0107594-06A

File Name. Dil. Factor: ** 170 ** 1.00	ID80119 - 2.06		Date of Collection: 7/27/01 Date of Analysis: 8/1/01	
Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	Amount (ppbv)	Amount (uG/m3)
Benzene	1.0	3.3	Not Detected	Not Detected
Toluene	1.0	. 3.9	Not Detected	Not Detected
Ethyl Benzene	1.0	4.5	Not Detected	Not Detected
m,p-Xylene	1.0	4.5	Not Detected	Not Detected
o-Xylene	1.0	4.5 	Not Detected	Not Detected
Container Type: 6 Liter Summa	Canister	%Recovery		Method Limits
Surrogates		<u> </u>		70-130
1,2-Dichloroethane-d4		113	•	
Toluene-d8		88	\$ %	70-130
4-Bromofluorobenzene		74		70-130

SAMPLE NAME: Lab Blank

ID#: 0107594-07A

File Names	1080105		Date of Collect	ction: NA
Dil. Factor:	100		Date of Analy	sis: 8/1/01: 😫
Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	Amount (ppbv)	Amount (uG/m3)
Benzene	0.50	1.6	Not Detected	Not Detected
Toluene	. 0.50	1.9	Not Detected	Not Detected
Ethyl Benzene	0.50	2.2	Not Detected	Not Detected
m,p-Xylene	0.50	2.2	Not Detected	Not Detected
o-Xylene	0.50	2.2	Not Detected	Not Detected
Container Type: NA - Not Applic	able			
Surrogates		%Recovery		Method Limits
1,2-Dichloroethane-d4		110		70-130
Toluene-d8		84		70-130
4-Bromofluorobenzene		74		70-130

AIR TOXICS LTD. AN ENVIRONMENTAL ANALYTICAL LABORATORY

CHAIN-OF-CUSTODY RECORD

Sample Transportation No.

Relinquishing signature on this document indicates that sample is being shipped in compliance FOLSOM, CA 95630-4719 handling or shipping of these samples. Relinquishing signature also indicates agreement to hold harmless, defend, and indemnify Air Toxics Limited against any claim, demand, or action of any ordinances of any kind. Air Toxics Limited assumes no liability with respect to the collection, kind, related to the collection, handling, or shipping of samples. D.O.T. Hotline (800) 467-4922 with all applicable local, State, Federal, national, and international laws, regulations and (916) 985-1000 FAX: (916) 985-1020 ordinances of any kind. Air Toxics Limited assumes no liability with respect to the collection

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AN ENVIRONMENTAL ANALYTICAL LABORATORY

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CHAIN-OF-CUSTODY RECORD

Sample Transportation Notice

ordinances of any kind. Air Toxics Limited assumes no liability with respect to the collection, handling or shipping of these samples. Relinquishing signature also indicates agreement to hold Relinquishing signature on this document indicates that sample is being shipped in compliance FOLSOM, CA 95630-4719 harmless, defend, and indemnify Air Toxics Limited against any claim, demand, or action of any kind, related to the collection, handling, or shipping of samples. D.O.T. Hotline (800) 467-4922 with all applicable local, State, Federal, national, and international laws, regulations and (916) 985-1000 FAX: (916) 985-1020

180 BLUE RAVINE ROAD, SUITE B

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WORK ORDER #: 0108017

Work Order Summary

CLIENT:

Ms. Kim Nichols

BILL TO:

Ms. Margaret Kelley Burns & McDonnell

Burns & McDonnell 2601 W. 22nd St.

2601 W. 22nd St.

Oakbrook, IL 60523-1229

Oakbrook, IL 60523-1229

PHONE:

630-990-0300x226

P.O. #

27194-4.07

FAX:

630-990-0301

PROJECT#

27194-4.07 Rogers Park Main

DATE RECEIVED:

8/1/01

CONTACT:

DeDe Dodge

DATE COMPLETED:

8/8/01

RECEIPT VAC/PRES. TEST FRACTION # **NAME** 9.5 Hg TO-14 RPM-S-SUM-07-30-01 01A 10.0 "Hg TO-14 RPM-E-SUM-07-30-01 02A 10.0 "Hg TO-14 RPM-E-SUM-07-30-01 Duplicate 02AA NA Method Spike TO-14 03A NA TO-14 Lab Blank 04A TO-14 NA Lab Blank 04B

CERTIFIED BY:

Sinda d. Fruman

08/08/01

Laboratory Director

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> 180 BLUE RAVINE ROAD, SUITE B FOLSOM, CA - 95630 (916) 985-1000 . (800) 985-5955 . FAX (916) 985-1020

LABORATORY NARRATIVE TO-14

Burns & McDonnell Workorder# 0108017

Two 6 Liter Summa Canister samples were received on August 01, 2001. The laboratory performed analysis via EPA Method TO-14 using GC/MS in the full scan mode. The method involves concentrating up to 0.5 liters of air. The concentrated aliquot is then flash vaporized and swept through a water management system to remove water vapor. Following dehumidification, the sample passes directly into the GC/MS for analysis. See the data sheets for the reporting limits for each compound.

During the five point calibration, two low-level standards are used. The low-level standard for TO-14 compounds is spiked at 0.5 ppbv and represents the reporting limit for these compounds. The low-level standard for the non-TO-14 compounds is spiked at 2.0 ppbv and represents the reporting limit for these compounds. The TO-14 compounds are present in both standards but are excluded from reporting in the 2.0 ppbv standard since a lower level is already included in the curve.

Method modifications taken to run these samples include:

Requirement	TO-14	ATL Modifications
Internal standard retention times.	Not specified.	Within 0.50 minutes of most recent daily CCV internal standards
Internal standard recoveries.	Not specified.	Within 40% of the daily CCV internal standard area for blanks and samples.
Initial calibration criteria.	Not specified.	RSD of 30% or less for standard compounds, 40% or less for non-standard and polar compounds
Continuing calibration verification criteria	Not specified.	70 - 130% for at least 90% of standard compounds, 60 - 140% for at least 80% of non-standard and polar compounds
Response factor for quantitation.	Average response factor (ICAL).	Average response factor (ICAL).

Receiving Notes

There were no receiving discrepancies.

Analytical Notes

There were no analytical discrepancies.

Definition of Data Qualifying Flags

Seven qualifiers may have been used on the data analysis sheets and indicates as follows:

- B Compound present in laboratory blank greater than reporting limit(background subtraction not performed).
 - J Estimated value.
 - E Exceeds instrument calibration range.
 - S Saturated peak.
 - Q Exceeds quality control limits.
 - U Compound analyzed for but not detected above the reporting limit.

N - The identification is based on presumptive evidence.

SAMPLE NAME: RPM-S-SUM-07-30-01

ID#: 0108017-01A

File Name:	c080228 (196		Date of Collect Date of Analy	ction: 7/30/01 sis: 8/3/01
Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	Amount (ppbv)	Amount (uG/m3)
Benzene	0.98	3.2	1.1	3.6
Toluene	0.98	3.8	Not Detected	Not Detected
Ethyl Benzene	0.98	4.3	Not Detected	Not Detected
m,p-Xylene	0.98	4.3	Not Detected	Not Detected
o-Xylene	0.98	4.3	Not Detected	Not Detected
Container Type: 6 Liter Summa	a Canister			Method
Surrogates		%Recovery		Limits
1,2-Dichloroethane-d4		101		70-130
Toluene-d8		100		70-130
4-Bromofluorobenzene	•	101		70-130

SAMPLE NAME: RPM-E-SUM-07-30-01

ID#: 0108017-02A

File Name: Dil. Factor:	r980620 2.01	10-12 (2014) (1-1) 40-140 (2014) (1-1) 40-140 (2014) (1-1)	Date of Collect Date of Analy	
 Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	Amount (ppbv)	Amount (uG/m3)
Benzene	1.0	3.3	1.3	4.3
Toluene	1.0	3.8	Not Detected .	Not Detected
Ethyl Benzene	1.0	4.4 .	Not Detected	Not Detected
m,p-Xylene	1.0	4.4	Not Detected	Not Detected
o-Xylene	1.0	4.4 	Not Detected	Not Detected
Container Type: 6 Liter Summa Controgates	anister	%Recovery		Method Limits
1,2-Dichloroethane-d4	e *	103		70-130
Toluene-d8		90		70-130
4-Bromofluorobenzene		87		70-130

SAMPLE NAME: RPM-E-SUM-07-30-01 Duplicate

ID#: 0108017-02AA

File Name: Dil. Factor:	r080621 2.01		Date of Collec Date of Analys	
Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	Amount (ppbv)	Amount (uG/m3)
Benzene	. 1.0	3.3	1.2	3.8
Toluene	1.0	3.8.	1.0	3.9
Ethyl Benzene	1.0	4.4	Not Detected	Not Detected
m,p-Xylene	1.0	4.4	Not Detected	Not Detected
o-Xylene	1.0	4.4	Not Detected	Not Detected
Container Type: 6 Liter Summa	Canister			Method
Surrogates		%Recovery	2	Limits
1,2-Dichloroethane-d4		98	a radional and a second	· ·30-130
Toluene-d8		91	i to	70-130
4-Bromofluorobenzene		91		70-130

SAMPLE NAME: Method Spike

ID#: 0108017-03A

EPA METHOD TO-14 GC/MS FULL SCAN

File Name: Dil. Factor:	r080602		Date of Collection: NA Date of Analysis: 8/6/01
Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	%Recovery
Benzene	0.50	1.6	104
Toluene	. 0.50	1.9	104
Ethyl Benzene	0.50	2.2	108
m,p-Xylene	0.50	2.2	110
o-Xylene	0.50	2.2	107
Container Type: NA - Not Appl	icable	 . .	
Surrogates		%Recovery	Method Limits
1,2-Dichloroethane-d4		90	
Toluene-d8		100	70-130
4-Bromofluorobenzene		106	70-130

SAMPLE NAME: Lab Blank

ID#: 0108017-04A

File Name:	c080207		Date of Collec	
Dil. Factor:	1.00		Date of Analy	sis 8/2/01
Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	Amount (ppbv)	Amount (uG/m3)
Benzene	0.50	1.6	Not Detected	Not Detected
Toluene ·	0.50	1.9	Not Detected	Not Detected
Ethyl Benzene	0.50	2.2	Not Detected	Not Detected
m,p-Xylene	0.50	2.2	Not Detected	Not Detected
o-Xylene	0.50	2.2	Not Detected	Not Detected
Container Type: NA - Not Applic	able			
Surrogates		%Recovery		Method Limits
1,2-Dichloroethane-d4		98,-		70-130
Toluene-d8		104		70-130
4-Bromofluorobenzene		102		70-130

SAMPLE NAME: Lab Blank

ID#: 0108017-04B

File Name:	r080607		- Date of Collec	tion: NA 💎 💨
Dil Factor:	1.00	各分的 电影 医多子的 60年表现 医克克斯氏病毒	Date of Analy	sis: 8/6/01
Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	Amount (ppbv)	Amount (uG/m3)
Benzene	0.50	1.6	Not Detected	Not Detected
Toluene	0.50	1.9	Not Detected	Not Detected
Ethyl Benzene	0.50	2.2	Not Detected	Not Detected
m,p-Xylene	0.50	2.2	Not Detected	Not Detected
o-Xylene	0.50	2.2	Not Detected	Not Detected
Container Type: NA - Not Applic	able			
Surrogates		%Recovery		Method Limits
1,2-Dichloroethane-d4	10 to 10 to	97		70-130
Toluene-d8		94	4	70-130
4-Bromofluorobenzene		. 88		70-130

CHAIN-OF-CUSTODY RECORD AN ENVIRONMENTAL ANALYTICAL LABORATORY

Sample Transportation No.

Relinquishing signature on this document indicates that sample is being shipped in compliance FOLSOM, CA 95630-4719 handling or shipping of these samples. Relinquishing signature also indicates agreement to hold harmless, defend, and indemnify Air Toxics Limited against any claim, demand, or action of any ordinances of any kind. Air Toxics Limited assumes no liability with respect to the collection, with all applicable local, State, Federal, national, and international laws, regulations and (916) 985-1000 FAX: (916) 985-1020 ordinances of any kind dir Toyins Limitad securaes no liability with respect to the collection kind, related to the collection, handling, or shipping of samples, D.O.T, Hotline (800) 467-4922

180 BLUE RAVINE RO/ JUITE B

Page ____ of _

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	Turn Around Time:	Turn Ar	>	Project info:		2187	Contact Person Minesity Louis	Contact Person

WORK ORDER #: 0108045

Work Order Summary

CLIENT:

Ms. Kim Nichols

Burns & McDonnell

2601 W. 22nd St.

Oakbrook, IL 60523-1229

BILL TO:

Ms. Margaret Kelley

Burns & McDonnell 2601 W. 22nd St.

Oakbrook, IL 60523-1229

PHONE:

630-990-0300x226

P.O. #

27194-4.07

FAX:

630-990-0301

PROJECT#

27194-4.07 Rogers Park Main

RECEIPT

DATE RECEIVED:

8/2/01

CONTACT:

DATE COMPLETED:

8/9/01

DeDe Dodge

FRACTION#	NAME	TEST	VAC/PRES.
-01A - :	RPM-N-SUM-07-31-01	TO-14	9.5 "Hg
02A	RPM-E-SUM-07-31-01	TO-14	10.5 "Hg
03A	Lab Blank	TO-14	NA

CERTIFIED BY:

08/09/01

Laboratory Director

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> 180 BLUE RAVINE ROAD, SUITE B FOLSOM, CA - 95630 (916) 985-1000 . (800) 985-5955 . FAX (916) 985-1020

LABORATORY NARRATIVE TO-14

Burns & McDonnell Workorder# 0108045

Two 6 Liter Summa Canister samples were received on August 02, 2001. The laboratory performed analysis via EPA Method TO-14 using GC/MS in the full scan mode. The method involves concentrating up to 0.5 liters of air. The concentrated aliquot is then flash vaporized and swept through a water management system to remove water vapor. Following dehumidification, the sample passes directly into the GC/MS for analysis. See the data sheets for the reporting limits for each compound.

During the five point calibration, two low-level standards are used. The low-level standard for TO-14 compounds is spiked at 0.5 ppbv and represents the reporting limit for these compounds. The low-level standard for the non-TO-14 compounds is spiked at 2.0 ppbv and represents the reporting limit for these compounds. The TO-14 compounds are present in both standards but are excluded from reporting in the 2.0 ppbv standard since a lower level is already included in the curve.

Method modifications taken to run these samples include:

Requiremen*	TO-14	ATL Modifications
Internal standard retention times.	Not specified.	Within 0.50 minutes of most recent daily CCV internal standards
Internal standard recoveries.	Not specified.	Within 40% of the daily CCV internal standard area for blanks and samples.
Initial calibration criteria.	Not specified.	RSD of 30% or less for standard compounds, 40% or less for non-standard and polar compounds
Continuing calibration verification criteria	Not specified.	70 - 130% for at least 90% of standard compounds, 60 - 140% for at least 80% of non-standard and polar compounds
Response factor for quantitation.	Average response factor (ICAL).	Average response factor (ICAL).

Receiving Notes

There were no receiving discrepancies.

Analytical Notes

There were no analytical discrepancies.

Definition of Data Qualifying Flags

Seven qualifiers may have been used on the data analysis sheets and indicates as follows:

- B Compound present in laboratory blank greater than reporting limit(background subtraction not performed).
 - J Estimated value.
 - E Exceeds instrument calibration range.
 - S Saturated peak.
 - Q Exceeds quality control limits.
 - U Compound analyzed for but not detected above the reporting limit.

N - The identification is based on presumptive evidence.

SAMPLE NAME: RPM-N-SUM-07-31-01

ID#: 0108045-01A

EPA METHOD TO-14 GC/MS FULL SCAN

Dil. Factor:	1.96		Date of Analy	sis: 8/7/01
Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	Amount (ppbv)	Amount (uG/m3)
Benzene	0.98	3.2	2.2	7.2
Toluene	0.98	3,8	1.2	4.6
Ethyl Benzene	0.98	4.3	Not Detected	Not Detected
m,p-Xylene	0.98	4.3	Not Detected	Not Detected
o-Xylene	0.98	4.3	Not Detected	Not Detected

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Limits
1,2-Dichloroethane-d4	107	70-130
Toluene-d8	94	70-130
4-Bromofluorobenzene	80	70-130

SAMPLE NAME: RPM-E-SUM-07-31-01

ID#: 0108045-02A

File Name: Dil. Factor:	r080629 2.06		Date of Collect Date of Analy	ction: 7/31/01 sis: 8/7/01
Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	Amount (ppbv)	Amount (uG/m3)
Benzene	1.0	3.3	3.6	12
Toluene .	1.0	3.9	1.2	4.4
Ethyl Benzene	1.0	4.5	Not Detected	Not Detected
m,p-Xylene	1.0	4.5	1.3	5.8
o-Xylene	1.0	4.5	Not Detected	Not Detected
Container Type: 6 Liter Summa	a Canister			
Surrogates		%Recovery		Method Limits
1,2-Dichloroethane-d4		107	1. M. F	70-130
Toluene-d8		95		70-130
4-Bromofluorobenzene		85		70-130

SAMPLE NAME: Lab Blank

ID#: 0108045-03A

File Name: Dil. Factor:	r080607 1.00		Date of Collect Date of Analy	
Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	Amount (ppbv)	Amount (uG/m3)
Benzene	0.50	1.6	Not Detected	Not Detected
Toluene	0.50	1.9	Not Detected	Not Detected
Ethyl Benzene	0.50	2.2	Not Detected	Not Detected
m,p-Xylene	0.50	2.2	Not Detected	Not Detected
o-Xylene	0.50	2.2	Not Detected	Not Detected
Container Type: NA - Not Applica	able			Method
Surrogates		%Recovery		Limits
1,2-Dichloroethane-d4	4.7	97		70-130
Toluene-d8		94		70-130
4-Bromofluorobenzene		88		70-130

AN ENVIRONMENTAL ANALYTICAL LABORATORY AIR TOXICS LTD.

CHAIN-OF-CUSTODY RECORD

Sample Transportation Notice

harmless, defend, and indemnify Air Toxics Limited against any claim, demand, or action of any kind, related to the collection, handling, or shipping of samples. D.O.T. Hotline (800) 467-4922 Relinquishing signature on this document indicates that sample is being shipped in compliance FOLSOM, CA 95630-4719 handling or shipping of these samples. Relinquishing signature also indicates agreement to hold ordinances of any kind. Air Toxics Limited assumes no liability with respect to the collection, with all applicable local, State, Federal, national, and international laws, regulations and (916) 985-1000 FAX: (916) 985

180 BLUE RAVINE ROAD, SUITE B

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Forth 1293 rev. 09

WORK ORDER #: 0108078

Work Order Summary

CLIENT:

Ms. Kim Nichols

Burns & McDonnell

2601 W. 22nd St. Oakbrook, IL 60523-1229 BILL TO:

Ms. Margaret Kelley

Burns & McDonnell 2601 W. 22nd St.

Oakbrook, IL 60523-1229

PHONE:

630-990-0300x226

P.O. #

27194-4.07

FAX:

630-990-0301

PROJECT#

27194-4.07 Rogers Park Main

DATE RECEIVED:

8/3/01

CONTACT:

DeDe Dodge

DATE COMPLETED:

8/10/01

RECEIPT VAC./PRES. TEST **FRACTION#** NAME TO-14 9.0 Hg RPM-N-SUM-08-CI-CI 01A TO-14 8.5 "Hg 02A RPM-S-SUM-08-C+-01 9.0 "Hg TO-14 03A RPM-E-SUM-08-01-01 TO-14 9.0 "Hg RPM-W-SUM-08-01-01 04A TO-14 NA 05A Lab Blank

CERTIFIED BY:

Sinda d. Fruman

DATE: $\frac{08}{}$

08/10/01

Laboratory Director

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Certification numbers: CA ELAP - 1149, NY ELAP - 11291, UT ELAP - E-217, AZ ELAP - AZ0567, LA - AI 30763

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LABORATORY NARRATIVE TO-14

Burns & McDonnell Workorder# 0108078

Four 6 Liter Summa Canister samples were received on August 03, 2001. The laboratory performed analysis via EPA Method TO-14 using GC/MS in the full scan mode. The method involves concentrating up to 0.5 liters of air. The concentrated aliquot is then flash vaporized and swept through a water management system to remove water vapor. Following dehumidification, the sample passes directly into the GC/MS for analysis. See the data sheets for the reporting limits for each compound.

During the five point calibration, two low-level standards are used. The low-level standard for TO-14 compounds is spiked at 0.5 ppbv and represents the reporting limit for these compounds. The low-level standard for the non-TO-14 compounds is spiked at 2.0 ppbv and represents the reporting limit for these compounds. The TO-14 compounds are present in both standards but are excluded from reporting in the 2.0 ppbv standard since a lower level is already included in the curve.

Method modifications taken to run these samples include:

Requirement	TO-14	ATL Modifications
Internal standard retention times.	Not specified.	Within 0.50 minutes of most recent daily CCV internal standards
Internal standard recoveries.	Not specified.	Within 40% of the daily CCV internal standard area for blanks and samples.
Initial calibration criteria.	Not specified.	RSD of 30% or less for standard compounds, 40% or less for non-standard and polar compounds
Continuing calibration verification criteria	Not specified.	70 - 130% for at least 90% of standard compounds, 60 - 140% for at least 80% of non-standard and polar compounds
Response factor for quantitation.	Average response factor (ICAL).	Average response factor (ICAL).

Receiving Notes

There were no receiving discrepancies.

Analytical Notes

There were no analytical discrepancies.

Definition of Data Qualifying Flags

Seven qualifiers may have been used on the data analysis sheets and indicates as follows:

- B Compound present in laboratory blank greater than reporting limit(background subtraction not performed).
 - J Estimated value.
 - E Exceeds instrument calibration range.
 - S Saturated peak.
 - Q Exceeds quality control limits.
 - U Compound analyzed for but not detected above the reporting limit.

N - The identification is based on presumptive evidence.

SAMPLE NAME: RPM-N-SUM-08-01-01

ID#: 0108078-01A

File Name: Dil. Factor:	r080624 1.91		Date of Collect Date of Analy	Section Control of the Section
Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	Amount (ppbv)	Amount (uG/m3)
Benzene	0.96	3.1	Not Detected	Not Detected
Toluene	0.96	3.6	0.96	3.7
Ethyl Benzene	0.96	4.2	Not Detected	Not Detected
m,p-Xylene	0.96	4.2	Not Detected	Not Detected
o-Xylene	0.96	4.2	Not Detected	Not Detected
Container Type: 6 Liter Summa Surrogates	Canister	%Recovery		Method Limits
		105		. Aut to 170-130
1,2-Dichloroethane-d4 Toluene-d8		93	in a strong of the strong law.	70-130
4-Bromofluorobenzene		84		70-130

SAMPLE NAME: RPM-S-SUM-08-01-01

ID#: 0108078-02A

File Name: Dil. Factor:	r080625 1.87		Date of Collection: 8/1/01 Date of Analysis: 8/7/01	
Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	Amount (ppbv)	Amount (uG/m3)
Benzene	0.94	3.0	1.2	3.9
Toluene	0.94	3.6	1.0	3.9
Ethyl Benzene	0.94	4.1	Not Detected	Not Detected
m,p-Xylene	0.94	4.1	1.0	4.5
o-Xylene	0.94	4.1	Not Detected	Not Detected
Container Type: 6 Liter Summ	a Canister			
Surrogates		%Recovery		Method Limits
1;2-Dichloroethane-d4		98	ja urustem.	
Toluene-d8		94	4	70-130
4-Bromofluorobenzene		88		70-130

SAMPLE NAME: RPM-E-SUM-08-01-01

ID#: 0108078-03A

File Name: Dil. Factor:	r080626 1.91		Date of Collection: 8/1/01 Date of Analysis: 8/7/01	
Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	Amount (ppbv)	Amount (uG/m3)
Benzene	0.96	3.1	2.7	8.7
Toluene	0.96	3.6	1.1	4.3
Ethyl Benzene	0.96	4.2	Not Detected	Not Detected
m,p-Xylene	0.96	4.2	0.99	4.4
o-Xylene	0.96	4.2	Not Detected	Not Detected
Container Type: 6 Liter Summa	Canister			
Surrogates		%Recovery		Method Limits
1;2-Dichloroethane-d4		104		70-130
Toluene-d8		94		70-130
4-Bromofluorobenzene		83		70-130

SAMPLE NAME: RPM-W-SUM-08-01-01

ID#: 0108078-04A

File Name:	r080627		Date of Collec	ction: 8/1/01
Dil. Factor:	1.91		Date of Analy	sis: 8/7/01
Compound	Rpt. Limit (ppbv)	Rpt, Limit (uG/m3)	Amount (ppbv)	Amount (uG/m3)
Benzene	0.96	3.1	Not Detected	Not Detected
Toluene	0.96	3.6	1.6	6.1
Ethyl Benzene	0.96	4.2	Not Detected	Not Detected
m,p-Xylene	0.96	4.2	1.0	4.5
o-Xylene	0.96	4.2	Not Detected	Not Detected
Container Type: 6 Liter Summa	a Canister			
Surrogates		%Recovery		Method Limits
1,2-Dichloroethane-d4	g ** 1	104		70-130
Toluene-d8		99		70-130
4-Bromofluorobenzene		85		70-130

SAMPLE NAME: Lab Blank

ID#: 0108078-05A

File Name:	r080607		Date of Collec	tion: NA
Dil. Factor;	1.00		Date of Analys	is: 8/6/01
Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	Amount (ppbv)	Amount (uG/m3)
Benzene	0.50	1.6	Not Detected	Not Detected
Toluene	0.50	1.9	Not Detected	Not Detected
Ethyl Benzene	0.50	2.2	Not Detected	Not Detected
m,p-Xylene	0.50	2.2	Not Detected	Not Detected
o-Xylene	0.50	2.2	Not Detected	Not Detected
Container Type: NA - Not Appli	icable			
Surrogates		%Recovery		Method Limits
1.2-Dichloroethane-d4		97	. La constantes	atri = :70-130
Toluene-d8		94	+	70-130
4-Bromofluorobenzene		88		70-130

Section and Long Sile Name Burne & McDonnot Engineering 27 Project Number: Stanton: Whyself Decient Phone: (690): 990-9900 Fax: (690): 990-0301 Oak Block Illnow dogso Helmquighed と変え きていることを Bumple Number Tanananar Biografia Spripler payorinal できる。 N To 180 A Hamilton Market City/SinterZip: 100 - 2011 - 2011 - 2010 - 2010 Whilese Ida Table Andrews Request for Chemical Analysis and Chain of Custody Record Process should be a second and Manual Vel. (2004) and DOWNS で区で Figure ਰੰ Chatody Seal Namber P B D'A Date Collected もだれる気のが行 Determine TALEST STATE Sample Type Liguid Matrix Spapial instructions Transport of the state of the s You Fresentian Container Scho るがはない。なるこれでの Ĉio. Number of Containers Lab. Reference, No. or Ephade No.: Document Cantral Na To Me nort Cone Temporatura Linon Floorium NO SEASON AT L Souther S THE DESIGNATION (SERVICE) がいる。

Page

WORK ORDER #: 0108095

Work Order Summary

CLIENT:

Ms. Kim Nichols

BILL TO:

Ms. Margaret Kelley

Burns & McDonnell

Burns & McDonnell 2601 W. 22nd St.

2601 W. 22nd St.

Oakbrook, IL 60523-1229

Oakbrook, IL 60523-1229

PHONE:

630-990-0300x226

P.O. #

27194-4.07

FAX:

630-990-0301

PROJECT#

27194-4.07 Rogers Park Main

DATE RECEIVED:

8/4/01

CONTACT:

DeDe Dodge

DATE COMPLETED:

8/13/01

			RECEIPT
FRACTION#	NAME	TEST	<u>VACJPRES.</u>
Gizi	RPM-N-SUM-08-02-01	TO-14	10.0 "Hg
1)2A	RPM-S-SUM-08-02-01	TO-14	9.0 "Hg
03A	RPM-E-SUM-08-02-01	TO-14	11.5 "Hg
04A	RPM-W-SUM-08-02-01	TO-14	12.0 "Hg
05A	RPM-S-SUM-08-03-01	TO-14	10.0 "Hg
06A	RPM-W-SUM-08-03-01	TO-14	. 10.0 "Hg
06A 06AA	RPM-W-SUM-08-03-01 Duplicate	TO-14	10.0 "Hg
 07A	Method Spike	TO-14	NA
98A	Lab Blank	ГО-14	. NA
08B	Lab Blank	TO-14	NA

CERTIFIED BY:

08/13/01 DATE:

Laboratory Director

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LABORATORY NARRATIVE TO-14

Burns & McDonnell Workorder# 0108095

Six 6 Liter Summa Canister samples were received on August 04, 2001. The laboratory performed analysis via EPA Method TO-14 using GC/MS in the full scan mode. The method involves concentrating up to 0.5 liters of air. The concentrated aliquot is then flash vaporized and swept through a water management system to remove water vapor. Following dehumidification, the sample passes directly into the GC/MS for analysis. See the data sheets for the reporting limits for each compound.

During the five point calibration, two low-level standards are used. The low-level standard for TO-14 compounds is spiked at 0.5 ppbv and represents the reporting limit for these compounds. The low-level standard for the non-TO-14 compounds is spiked at 2.0 ppbv and represents the reporting limit for these compounds. The TO-14 compounds are present in both standards but are excluded from reporting in the 2.0 ppbv standard since a lower level is already included in the curve.

Method modifications taken to run these samples include:

Requirement	TO-14	ATL Modifications
Internal standard retention times.	Not specified.	Within 0.50 minutes of most recent daily CCV internal standards
Internal standard recoveries.	Not specified.	Within 40% of the daily CCV internal standard area for blanks and samples.
Initial calibration criteria.	Not specified.	RSD of 30% or less for standard compounds, 40% or less for non-standard and polar compounds
Continuing calibration verification criteria	Not specified.	70 - 130% for at least 90% of standard compounds, 60 - 140% for at least 80% of non-standard and polar compounds
Response factor for quantitation.	Average response factor (ICAL).	Average response factor (ICAL).

Receiving Notes

There were no receiving discrepancies.

Analytical Notes

There were no analytical discrepancies.

Definition of Data Qualifying Flags

Seven qualifiers may have been used on the data analysis sheets and indicates as follows:

- B Compound present in laboratory blank greater than reporting limit(background subtraction not performed).
 - J Estimated value.
 - E Exceeds instrument calibration range.
 - S Saturated peak.
 - Q Exceeds quality control limits.
 - U Compound analyzed for but not detected above the reporting limit.

N - The identification is based on presumptive evidence.

SAMPLE NAME: RPM-N-SUM-08-02-01

ID#: 0108095-01A

File Name:	r080828		Date of Collection	ın: 8/2/01
Dil. Factor:	2.01		Date of Analysis	8/9/01
Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	Amount (ppbv)	Amount (uG/m3)
Benzene	1.0	3.3	3.3	11
Toluene .	1.0	3.8	3.2	12
Ethyl Benzene	1.0	4.4	Not Detected	Not Detected
m,p-Xylene	1.0	4.4	2.5	11
o-Xylene	1.0	4.4	1.0	4.5
Container Type: 6 Liter Summa	a Canister			Method
Surrogates		%Recovery	100	Limits
1,2-Dichloroethane-d4		. 111	t <u>at autorio de tro</u>	70-130
Toluene-d8		98		70-130
4-Bromofluorobenzene		115		70-130

SAMPLE NAME: RPM-S-SUM-08-02-01

ID#: 0108095-02A

File Name: Dil. Factor;	r080829		Date of Collection: 8/2/01 Date of Analysis: 8/9/01	
Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	Amount (ppbv)	Amount (uG/m3)
Benzene	0.96	3.1	7.9	26
Toluene	0.96	3.6	18	69
Ethyl Benzene	0.96	4.2	3.8	17
m,p-Xylene	0.96	4.2	21	95
o-Xylene	0.96	4.2	5.9	26
Container Type: 6 Liter Summa	a Canister			Method
Surrogates		%Recovery		Limits
1,2-Dichloroethane-d4		121	a	70-130
Toluene-d8		100		70-130
4-Bromofluorobenzene		113		70-130

SAMPLE NAME: RPM-E-SUM-08-02-01

ID#: 0108095-03A

File Name: Dil. Factor:	r080919 2.17		Date of Collection: 8/2/01. Date of Analysis: 8/9/01	
Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	Amount (ppbv)	Amount (uG/m3)
Benzene	1.1	3.5	15	49
Toluene	1.1	4.2	6.6	25
Ethyl Benzene	1.1	4.8	3.9	17
m,p-Xylene	1.1	4.8	5.7	25
o-Xylene	1.1	4.8	2.4	11
Container Type: 6 Liter Summa	a Canister	%Recovery		Method Limits
1,2-Dichloroethane-d4		116		70-130
Toluene-d8		100		70-130
4-Bromofluorobenzene		111		70-130

SAMPLE NAME: RPM-W-SUM-08-02-01

ID#: 0108095-04A

r080920		Date of Collec	ction: 8/2/01
2.23		Date of Analy	sis: 8/9/01
Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	Amount (ppbv)	Amount (uG/m3)
1.1	3.6	10	33
1.1	4.3	8.2	32
1.1	4.9	2.6	11
1.1	4.9	11	47
1.1	4.9 	3.0	13
anister			
			Method
	%Recovery		<u>Limits</u>
	122		70-130
	100		70-130
	110		70-130
	2.23 Rpt. Limit (ppbv) 1.1 1.1 1.1 1.1 1.1	Rpt. Limit (ppbv) (uG/m3) 1.1 3.6 1.1 4.3 1.1 4.9 1.1 4.9 1.1 4.9 2anister **Recovery** 122 100	Rpt. Limit

SAMPLE NAME: RPM-S-SUM-08-03-01

ID#: 0108095-05A

File Name: Dil. Factor:			Date of Collection: 8/3/01 Date of Analysis: 8/9/01	
Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	Amount (ppbv)	Amount (uG/m3)
Benzene	1.0	3.3	2.1	6.8
Toluene	1.0	3.8	1.2	4.6
Ethyl Benzene	1.0	4.4	Not Detected	Not Detected
m;p-Xylene	1.0	4.4	1.3	5.9
o-Xylene	1.0	4.4	Not Detected	Not Detected
Container Type: 6 Liter Summa	Canister			Method
Surrogates		%Recovery		Limits
1,2-Dichloroethane-d4		117	2 2 42 43 45	stella set 70-130
Toluene-d8		98	y .	70-130
4-Bromofluorobenzene		102		70-130

SAMPLE NAME: RPM-W-SUM-08-03-01

ID#: 0108095-06A

File Name:	r080922		Date of Gollection: 8/3/01 Date of Analysis: 8/10/01		
Dil. Factor:	2.01		Date Of Allaly	SIS DITUVITY	
Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	Amount (ppbv)	Amount (uG/m3)	
Benzene	1.0	3.3	1.6	5.0	
Toluene	1.0	3.8	1.9	7.5	
Ethyl Benzene	1.0	4.4	Not Detected	Not Detected	
m,p-Xylene	1.0	4.4	1.2	5.4	
o-Xylene	1.0	4.4	Not Detected	Not Detected	
Container Type: 6 Liter Summa	Canister				
Surrogates		%Recovery	ter e	Method Limits	
1,2-Dichloroethane-d4		124	Samuel State Control	. 70-130	
Toluene-d8		97		70-130	
4-Bromofluorobenzene		104		70-130	

SAMPLE NAME: RPM-W-SUM-08-03-01 Duplicate

ID#: 0108095-06AA

File Name: Dil. Factor:	r080923 2.01		Date of Collect Date of Analys	
Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	Amount (ppbv)	Amount (uG/m3)
Benzene	1.0	3.3	1.5	4.9
Toluene	1.0	3.8	1.8	6.8
Ethyl Benzene	1.0	4.4	Not Detected	Not Detected
m,p-Xylene	1.0	4.4	1.2	5.2
o-Xylene	1.0	4.4	Not Detected	Not Detected
Container Type: 6 Liter Summa	Canister			Method
Surrogates		%Recovery		Limits
1,2-Dichloroethane-d4		123	1 1 2 2 2 1 1	70-130
Toluene-d8		100		70-130
4-Bromofluorobenzene		104		70-130

SAMPLE NAME: Method Spike

ID#: 0108095-07A

File Name:	r080902		Date of Collection: NA
Dil. Factor:	1.00		Date of Analysis: 8/9/01
Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	%Recovery
Benzene	0.50	1.6	93
Toluene	0.50	1.9	. 94
Ethyl Benzene	0.50	2.2	104
m,p-Xylene	0.50	2.2	114
o-Xylene	0.50	2.2	109
Container Type: NA - Not Appli	cable		
			Method
Surrogates	N.	%Recovery	Limits
1,2-Dichloroethane-d4	No.	107	70-130
Toluene-d8		98	70-130
4-Bromofluorobenzene		114	70-130

SAMPLE NAME: Lab Blank

ID#: 0108095-08A

File Name: Dil. Factor:	r080810 +		Date of Collect Date of Analy	
Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	Amount (ppbv)	Amount (uG/m3)
Benzene	0.50	1.6	Not Detected	Not Detected
Toluene	0.50	1.9	Not Detected	Not Detected
Ethyl Benzene	0.50	2.2	Not Detected	Not Detected
m,p-Xylene	0.50	2.2	Not Detected	Not Detected
o-Xylene	0.50	2.2	Not Detected	Not Detected
Container Type: NA - Not Appli	cable			
Surrogates		%Recovery		Method Limits
1,2-Dichloroethane-d4		98		70-130
Toluene-d8		100		70-130
4-Bromofluorobenzene		96		70-130

SAMPLE NAME: Lab Blank

ID#: 0108095-08B

File Name:	r080907		Date of Collec	tion: NA
Dil. Factor:	1.00	A print Friedrick Courts	Date of Analys	is; 8/9/01
Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	Amount (ppbv)	Amount (uG/m3)
Benzene	0.50	1.6	Not Detected	Not Detected
Toluene .	0.50	1.9	Not Detected	Not Detected
Ethyl Benzene	0.50	2.2	Not Detected	Not Detected
m,p-Xylene	0.50	2.2	Not Detected	Not Detected
o-Xylene	0.50	2.2	Not Detected	Not Detected
Container Type: NA - Not Applicable				
Surrogates		%Recovery	· · ·	Method Limits
1,2-Dichloroethane-d4		108	and the second second	70-130
Toluene-d8	•	99	5. 5	70-130
4-Bromofluorobenzene		95		70-130

LIR TOXICS LTD. AN ENVIRONMENTAL ANALYTICAL LABORATORY

CHAIN-OF-CUSTODY RECORD

harmless, defend, and indemnify Air Toxics Limited against any claim, demand, or action of any kind, related to the collection, handling, or shipping of samples. D.O.T. Hotline (800) 467-4922 Relinquishing signature on this document indicates that sample is being shipped in compliance FOLSOM, CA 95630-4719 with all applicable local, State, Federal, national, and international laws, regulations and (916) 985-1000 FAX: (916) 985-1020 ordinances of any kind. Air Toxics Limited assumes no liability with respect to the collection, handling or shipping of these samples. Relinquishing signature also indicates that sample is being shipped in compliance FOLSOM, CA 95630-4719 ordinances of any kind. Air Toxics Limited assumes no liability with respect to the collection,

Page ⊥ of ⊥

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CHAIN-OF-CUSTODY RECORD AIR TOXICS LTD. AN ENVIRONMENTAL ANALYTICAL LABORATORY

Sample Transportation Notice

handling or shipping of these samples. Relinquishing signature also indicates agreement to hold harmless, defend, and indemnify Air Toxics Limited against any claim, demand, or action of any kind, related to the collection, handling, or shipping of samples. D.O.T. Hotline (800) 467-4922 Relinquishing signature on this document indicates that sample is being shipped in compliance FOLSOM, CA 95630-4719 with all applicable local, State, Federal, national, and international laws, regulations and (916) 985-1000 FAX: (916) 985-1020 ordinances of any kind. Air Toxics Limited assumes no liability with respect to the collection,

180 BLUE RAVINE ROAD, SUITE B

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d Time.	Turn Around Time.	Project info:		Karron Washington Colonia	Contact Person NARGARCET KE	Contact
Page of		f samples. D.O.T. Hotline (800) 467-4922	kind, related to the collection, handling, or shipping of samples.	kind, related to the		

WORK ORDER #: 0108143

Work Order Summary

CLIENT:

Ms. Kim Nichols

BILL TO:

Ms. Margaret Kelley

Burns & McDonnell

Burns & McDonnell

2601 W. 22nd St.

2601 W. 22nd St.

Oakbrook, IL 60523-1229

Oakbrook, IL 60523-1229

PHONE:

630-990-0300x226

P.O. #

27194-4.07

FAX:

630-990-0301

PROJECT#

27194-4.07 Rogers Park Main

DATE RECEIVED:

8/8/01

CONTACT:

DeDe Dodge

DATE COMPLETED:

8/15/01

			RECEIPT
FRACTION #	<u>NAME</u>	<u>TEST</u>	VAC/PRES
01A	RPM-N-SUM-08-06-01	TO-14	9.5 Hg w
02A	RPM-S-SUM-08-06-01	TO-14	9.5 " ¹ 1g
03A	RPM-E-SUM-08-06-01	TO-14	10.5 "Hg
04A	RPM-W-SUM-08-06-01	TO-14	10.0 "Hg
05A	Lab Blank	TO-14	. NA
. 064	ICS	TO-14	NA

CERTIFIED BY:

08/15/01 DATE:

Laboratory Director

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> 180 BLUE RAVINE ROAD, SUITE B FOLSOM, CA - 95630 (916) 985-1000 . (800) 985-5955 . FAX (916) 985-1020

LABORATORY NARRATIVE TO-14

Burns & McDonnell Workorder# 0108143

Four 6 Liter Summa Canister samples were received on August 08, 2001. The laboratory performed analysis via EPA Method TO-14 using GC/MS in the full scan mode. The method involves concentrating up to 0.5 liters of air. The concentrated aliquot is then flash vaporized and swept through a water management system to remove water vapor. Following dehumidification, the sample passes directly into the GC/MS for analysis. See the data sheets for the reporting limits for each compound.

During the five point calibration, two low-level standards are used. The low-level standard for TO-14 compounds is spiked at 0.5 ppbv and represents the reporting limit for these compounds. The low-level standard for the non-TO-14 compounds is spiked at 2.0 ppbv and represents the reporting limit for these compounds. The TO-14 compounds are present in both standards but are excluded from reporting in the 2.0 ppbv standard since a lower level is already included in the curve.

Method modifications taken to run these samples include:

Requirement	TO-14	ATL Modifications
Internal standard retention times.	Not specified.	Within 0.50 minutes of most recent daily CCV internal standards
Internal standard recoveries.	Not specified.	Within 40% of the daily CCV internal standard area for blanks and samples.
Initial calibration criteria.	Not specified.	RSD of 30% or less for standard compounds, 40% or less for non-standard and polar compounds
Continuing calibration verification criteria	Not specified.	70 - 130% for at least 90% of standard compounds, 60 - 140% for at least 80% of non-standard and polar compounds
Response factor for quantitation.	Average response factor (ICAL).	Average response factor (ICAL).

Receiving Notes

There were no receiving discrepancies.

Analytical Notes

There were no analytical discrepancies.

Definition of Data Qualifying Flags

Seven qualifiers may have been used on the data analysis sheets and indicates as follows:

- B Compound present in laboratory blank greater than reporting limit(background subtraction not performed).
 - J Estimated value.
 - E Exceeds instrument calibration range.
 - S Saturated peak.
 - Q Exceeds quality control limits.
 - U Compound analyzed for but not detected above the reporting limit.
 - N The identification is based on presumptive evidence.

SAMPLE NAME: RPM-N-SUM-08-06-01

ID#: 0108143-01A

File Name:	1080918		Date of Collec	CHON: 8/6/UT
Dil. Factor	1.96	and the second	Date of Analy	sis: 8/9/01
Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	Amount (ppbv)	Amount (uG/m3)
Benzene	0.98	3.2	8.5	27
Toluene	0.98	3.8	4.8	18
Ethyl Benzene	0.98	4.3	1.5	6.7
m,p-Xylene	0.98	4.3	3.2	14
o-Xylene	0.98	4.3	1.4	6.4
Container Type: 6 Liter Summa	a Canister			Method
Surrogates		%Recovery		Limits
1,2-Dichloroethane-d4		109		70-130
Toluene-d8		102		70-130
4-Bromofluorobenzene		89		70-130

SAMPLE NAME: RPM-S-SUM-08-06-01

ID#: 0108143-02A

File Name: Dil. Factor:	J080919 1,96		Date of Collect Date of Analy	STATE OF THE PARTY
Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	Amount (ppbv)	Amount (uG/m3)
Benzene	0.98	3.2	1.2	3.8
Toluene	. 0.98	3.8	2.5	9.8
Ethyl Benzene	0.98	4.3	Not Detected	Not Detected
m,p-Xylene	0.98	4.3	1.6	7.2
o-Xylene	0.98	4.3	Not Detected	Not Detected
Container Type: 6 Liter Summa	Canister			Method
Surrogates		%Recovery	·.	Limits
1,2-Dichloroethane-d4		108	,202-17-5	
Toluene-d8	•	99		70-130
4-Bromofluorobenzene		93		70-130

SAMPLE NAME: RPM-E-SUM-08-06-01

ID#: 0108143-03A

File Name: Dil, Factor:	1080920 2.06		Date of Collection Date of Analysis	A PROPERTY OF THE PROPERTY OF
Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	Amount (ppbv)	Amount (uG/m3)
Benzene	1.0	3.3	17	54
Toluene	1.0	3.9	6.7	26
Ethyl Benzene	1.0	4.5	3.0	13
m,p-Xylene	1.0	4.5	5.4	24
o-Xylene	1.0	4.5	2.7	12
Container Type: 6 Liter Summa	Canister	•		Method
Surrogates		%Recovery	i en grana	Limits
1,2-Dichloroethane-d4		109	4 - 47 L-6 A4 10 4.	70-130
Toluene-d8		97		70-130
4-Bromofluorobenzene		92		70-130

SAMPLE NAME: RPM-W-SUM-08-06-01

ID#: 0108143-04A

File Name: Oil. Factor:	2.01			Date of Collection: 8/6/01 Date of Analysis: 8/9/01	
Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	Amount (ppbv)	Amount (uG/m3)	
Benzene	1.0	3.3	1.3	4.3	
Toluene	1.0	3.8	2.1	8.2	
Ethyl Benzene	1.0	4.4	Not Detected	Not Detected	
m,p-Xylene	1.0	4.4	1.2	5.4	
o-Xylene	1.0	4.4	Not Detected	Not Detected	
Container Type: 6 Liter Summa Surrogates	Canister	%Recovery	·	Method Limits	
1,2-Dichloroethane-d4		. 107		70-130	
Foluene-d8	4	100		70-130	
4-Bromofluorobenzene		91		70-130	

SAMPLE NAME: Lab Blank

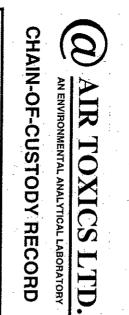
ID#: 0108143-05A

File Name: Dil. Factor:	1,00			Date of Collection: NA Date of Analysis: 8/9/01		
Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	Amount (ppbv)	Amount (uG/m3)		
Benzene	0.50	1.6	Not Detected	Not Detected		
Toluene	0.50	1.9	Not Detected	Not Detected		
Ethyl Benzene	0.50	2.2	Not Detected	Not Detected		
m,p-Xylene	0.50	2.2	Not Detected	Not Detected		
o-Xylene	0.50	2.2	Not Detected	Not Detected		
Container Type: NA - Not Ap	plicable			Method		
Surrogates		%Recovery		Limits		
1,2-Dichloroethane-d4		102		70-130		
Toluene-d8		96		70-130		
4-Bromofluorobenzene		89		70-130		

SAMPLE NAME: LCS

ID#: 0108143-06A

File Name:	1080904 1.00		Date of Collection: Date of Analysis:	
Dil. Factor:		Rpt. Limit	Date of Allarysis.	4 HO1
Compound	Rpt. Limit (ppbv)	(uG/m3)	•	%Recovery
Benzene	0.50	1.6		99
Toluene	0.50 .	1.9		98
Ethyl Benzene	0.50	2.2	•	99
m,p-Xylene	0.50	2.2	4	101
o-Xylene	0.50	2.2		116
Container Type: NA - Not Applica	ble			
Surrogates		%Recovery	e emiliani	Method Limits
1,2-Dichloroethane-d4		108	er to the Level at the obstice	70-130
Toluene-d8		99	ξ·	70-130
4-Bromofluorobenzene		94		70-130



Sample Transportation Notice

Relinquishing signature on this document indicates that sample is being shipped in compliance FOLSOM, CA 95630-4719, with all applicable local, State, Federal, national, and international laws, regulations and (916) 985-1000 FAX: (916) 985-1020 harmless, defend, and indemnify Air Toxics Limited against any claim, demand, or action of any kind, related to the collection, handling, or shipping of samples. D.O.T. Hotline (800) 467-4922 ordinances of any kind. Air Toxics Limited assumes no liability with respect to the collection, handling or shipping of these samples. Relinquishing signature also indicates agreement to hold

180 BLUE RAVINE ROAD, SUITE B

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WORK ORDER #: 0108170

Work Order Summary

CLIENT:

Ms. Kim Nichols

BILL TO:

Ms. Margaret Kelley

Burns & McDonnell

Burns & McDonnell 2601 W. 22nd St.

2601 W. 22nd St.

Oakbrook, IL 60523-1229

Oakbrook, IL 60523-1229

PHONE:

630-990-0300x226

P.O. # 27194-4.07

FAX:

630-990-0301

PROJECT#

27194-4.07 Rogers Park Main

DATE RECEIVED:

8/9/01

CONTACT:

DeDe Dodge

DATE COMPLETED: 8/16/01

RECEIPT TEST VAC/PRES. FRACTION# NAME 9.5 "Hg RPM-N-SUM-08-07-01 TO-14 01A TO-14 9.5 "Hg RPM-S-SUM-08-07-01 02A 10.5 "Hg TO-14 03A RPM-E-SUM-08-07-01 TO-14 10.5 "Hg RPM-E-SUM-08-07-01 Duplicate 03AA 10.0 "Hg RPM-W-SUM-08-07-01 TO-14 04A TO-14 NA 05A Lab Blank NA TO-14 06A LCS

CERTIFIED BY:

inta) S. Frumas

DATE:

08/16/01

Laboratory Director

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> 180 BLUE RAVINE ROAD, SUITE B FOLSOM, CA - 95630 (916) 985-1000 . (800) 985-5955 . FAX (916) 985-1020

LABORATORY NARRATIVE TO-14

Burns & McDonnell Workorder# 0108170

Four 6 Liter Summa Canister samples were received on August 09, 2001. The laboratory performed analysis via EPA Method TO-14 using GC/MS in the full scan mode. The method involves concentrating up to 0.5 liters of air. The concentrated aliquot is then flash vaporized and swept through a water management system to remove water vapor. Following dehumidification, the sample passes directly into the GC/MS for analysis. See the data sheets for the reporting limits for each compound.

During the five point calibration, two low-level standards are used. The low-level standard for TO-14 compounds is spiked at 0.5 ppbv and represents the reporting limit for these compounds. The low-level standard for the non-TO-14 compounds is spiked at 2.0 ppbv and represents the reporting limit for these compounds. The TO-14 compounds are present in both standards but are excluded from reporting in the 2.0 ppbv standard since a lower level is already included in the curve.

Method modifications taken to run these samples include:

Requirement	TO-14	ATL Modifications
Internal standard retention times.	Not specified.	Within 0.50 minutes of most recent daily CCV internal standards
Internal standard recoveries.	Not specified.	Within 40% of the daily CCV internal standard area for blanks and samples.
Initial calibration criteria.	Not specified.	RSD of 30% or less for standard compounds, 40% or less for non-standard and polar compounds
Continuing calibration verification criteria	Not specified.	70 - 130% for at least 90% of standard compounds, 60 - 140% for at least 80% of non-standard and polar compounds
Response factor for quantitation.	Average response factor (ICAL).	Average response factor (ICAL).

Receiving Notes

There were no receiving discrepancies.

Analytical Notes

There were no analytical discrepancies.

Definition of Data Qualifying Flags

Seven qualifiers may have been used on the data analysis sheets and indicates as follows:

- B Compound present in laboratory blank greater than reporting limit(background subtraction not performed).
 - J Estimated value.
 - E Exceeds instrument calibration range.
 - S Saturated peak.
 - Q Exceeds quality control limits.
 - U Compound analyzed for but not detected above the reporting limit.
 - N The identification is based on presumptive evidence.

SAMPLE NAME: RPM-N-SUM-08-07-01

ID#: 0108170-01A

EPA METHOD TO-14 GC/MS FULL SCAN

File Name: Dil. Factor:	r081025 1.96	Spirite Charles and Spirite Spirite Charles and Spirite Spirite	Date of Collect Date of Analy	
Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	Amount (ppbv)	Amount (uG/m3)
Benzene	0.98	3.2	3.4	11
Toluene	0.98	3.8	2.4	9.1
Ethyl Benzene	0.98	4.3	Not Detected	Not Detected
m,p-Xylene	0.98	4.3	1.9	8.4
o-Xylene	0.98	4.3	Not Detected	Not Detected
Container Type: 6 Liter Summa	Canister			
				Method
Surrogates		%Recovery		Limits
1,2-Dichloroethane-d4		112	. 7	. 70-130

Toluene-d8

4-Bromofluorobenzene

102

105

70-130

70-130

SAMPLE NAME: RPM-S-SUM-08-07-01

ID#: 0108170-02A

File Name:	r081026	and of the billion of	Date of Collec	
Dil. Factor:	1.96		Date of Analy	sis: 8/11/01
Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	Amount (ppbv)	Amount (uG/m3)
Benzene	0.98	3.2	1.8	6.0
Toluene	0.98	3.8	1.8	. 7.0
Ethyl Benzene	0.98	4.3	Not Detected	Not Detected
m,p-Xylene	0.98	4.3	1.6	6.9
o-Xylene	0.98	4.3	Not Detected	Not Detected
Container Type: 6 Liter Summa	a Canister			
Surrogates		%Recovery	*	Method Limits
1,2-Dichloroethane-d4		116	44.4 MIN	70-130
Toluene-d8		101	•	70-130
4-Bromofluorobenzene		104		70-130

SAMPLE NAME: RPM-E-SUM-08-07-01

ID#: 0108170-03A

File Name: (a) Dil. Factor:	r081027 2.06		Date of Collect Date of Analy	
Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	Amount (ppbv)	Amount (uG/m3)
Benzene	1.0	3.3	23	76
Toluene	1.0	3.9	12	46
Ethyl Benzene	1.0	4.5	2.5	11
m,p-Xylene	1.0	4.5	7.0	31
o-Xylene	1.0	4.5	2.7	
Container Type: 6 Liter Summa	Canister	·		Method
Surrogates		%Recovery		Limits
1,2-Dichloroethane-d4		110		70-130
Toluene-d8		98		70-130
4-Bromofluorobenzene		108		70-130

SAMPLE NAME: RPM-E-SUM-08-07-01 Duplicate

ID#: 0108170-03AA

File Name: Dll. Factor:	r081028 2.06		Date of Collect Date of Analys	
Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	Amount (ppbv)	Amount (uG/m3)
Benzene	1.0	3.3	23	74
Toluene	1.0	3.9	12	47
Ethyl Benzene	1.0	4.5	2.9	13
m,p-Xylene	1.0	4.5	6.6	29
o-Xylene	1.0	4.5	2.7	12
Container Type: 6 Liter Summa Surrogates	ı Canister	%Recovery		Method Limits
1,2-Dichloroethane-d4		121	× 1.	70-130
Toluene-d8		100		70-130
4-Bromofluorobenzene		101		70-130

SAMPLE NAME: RPM-W-SUM-08-07-01

ID#: 0108170-04A

File Name: Dil. Factor:	r081029 2.01		Date of Collect Date of Analy	
Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	Amount (ppbv)	Amount (uG/m3)
Benzene	1.0	3.3	3.9	12
Toluene .	1.0	3.8	3.6	14
Ethyl Benzene	1.0	4.4	Not Detected	Not Detected
m,p-Xylene	1.0	4.4	1.8	8.1
o-Xylene	1.0	4.4	Not Detected	Not Detected
Container Type: 6 Liter Summa	a Canister			Method
Surrogates		%Recovery		Limits
1,2-Dichloroethane-d4		115		70-130
Toluene-d8		99		70-130
4-Bromofluorobenzene		100		70-130

SAMPLE NAME: Lab Blank

ID#: 0108170-05A

File Name: Dil. Factor:	r081006 1.00		Date of Collection: NA Date of Analysis: 8/10/01		
Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	Amount (ppbv)	Amount (uG/m3)	
Benzene	0.50	1.6	Not Detected	Not Detected	
Toluene	0.50	1.9	Not Detected	Not Detected	
Ethyl Benzene	0.50	2.2	Not Detected	Not Detected	
m,p-Xylene	0.50	2.2	Not Detected	Not Detected	
o-Xylene	0.50	2.2	Not Detected	Not Detected	
Container Type: NA - Not Appli	cable				
Surrogates		%Recovery		Method Limits	
1,2-Dichloroethane-d4	* * * * * * * * * * * * * * * * * * * *	111		70-130	
Toluene-d8		98		70-130	
4-Bromofluorobenzene		93		70-130	

SAMPLE NAME: LCS

ID#: 0108170-06A

File Name: Dil. Factor:	r081004 1:00	Date of Collection: NA Date of Analysis: 8/10/01		
Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	%Recovery	
Benzene	0.50	1.6	84	
Toluene	0.50	1.9	. 87	
Ethyl Benzene	0.50	2.2	98	
m,p-Xylene	0.50	2.2	108	
o-Xylene	0.50	2.2	123	
Container Type: NA - Not Appli	cable			
			Method	
Surrogates		%Recovery	Limits	
1,2-Dichloroethane-d4		109		
Toluene-d8		99	70-130	
4-Bromofluorobenzene		114	70-130	

AN ENVIRONMENTAL ANALYTICAL LABORATORY AIR TOXICS LTD.

CHAIN-OF-CUSTODY RECORD

Sample Transportation No. TD

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kind, related to the collection, handling, or shipping of samples. D.O.T. Hotline (800) 467-4922

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0108170	Work Order#										10"Nc	10.5°%	1	9.5%	Canister Pressure / Vacuum	ne: Specify

WORK ORDER #: 0108214

Work Order Summary

CLIENT:

Ms. Kim Nichols

Burns & McDonnell

2601 W. 22nd St.

Oakbrook, IL 60523-1229

BILL TO: Ms. Margaret Kelley

Burns & McDonnell

2601 W. 22nd St.

Oakbrook, IL 60523-1229

PHONE:

630-990-0300x226

P.O. #

27194-4.07

FAX:

630-990-0301

PROJECT#

27194-4.07 Rogers Park Main

DATE RECEIVED:

8/10/01

CONTACT:

DeDe Dodge

DATE COMPLETED:

8/17/01

NAME

RPM-N-SUM-08-08-01 RPM-E-SUM-08-08-01

LCS

02A 03A 04A

01A

FRACTION#

Lab Blank

TEST TO-14

TO-14 TO-14

TO-14

RECEIPT VAC/PRES. 90 "Hg

10.0 "Hg NA

NA

CERTIFIED BY:

DATE:

08/17/01

Laboratory Director

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LABORATORY NARRATIVE TO-14

Burns & McDonnell Workorder# 0108214

Two 6 Liter Summa Canister samples were received on August 10, 2001. The laboratory performed analysis via EPA Method TO-14 using GC/MS in the full scan mode. The method involves concentrating up to 0.5 liters of air. The concentrated aliquot is then flash vaporized and swept through a water management system to remove water vapor. Following dehumidification, the sample passes directly into the GC/MS for analysis. See the data sheets for the reporting limits for each compound.

During the five point calibration, two low-level standards are used. The low-level standard for TO-14 compounds is spiked at 0.5 ppbv and represents the reporting limit for these compounds. The low-level standard for the non-TO-14 compounds is spiked at 2.0 ppbv and represents the reporting limit for these compounds. The TO-14 compounds are present in both standards but are excluded from reporting in the 2.0 ppbv standard since a lower level is already included in the curve.

Method modifications taken to run these samples include:

Requirement	TO-14	ATL Modifications		
Internal standard retention times.	Not specified.	Within 0.50 minutes of most recent daily CCV internal standards		
Internal standard recoveries.	Not specified.	Within 40% of the daily CCV internal standard area blanks and samples.		
Initial calibration criteria.	Not specified.	RSD of 30% or less for standard compounds, 40% or less for non-standard and polar compounds		
Continuing calibration Not specified. verification criteria		70 - 130% for at least 90% of standard compounds, 60 - 140% for at least 80% of non-standard and polar compounds		
Response factor for quantitation.	Average response factor (ICAL).	Average response factor (ICAL).		

Receiving Notes

There were no receiving discrepancies.

Analytical Notes

There were no analytical discrepancies.

Definition of Data Qualifying Flags

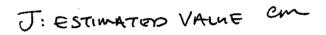
Seven qualifiers may have been used on the data analysis sheets and indicates as follows:

- B Compound present in laboratory blank greater than reporting limit(background subtraction not performed).
 - J Estimated value.
 - E Exceeds instrument calibration range.
 - S Saturated peak.
 - Q Exceeds quality control limits.
 - U Compound analyzed for but not detected above the reporting limit.
 - N The identification is based on presumptive evidence.

SAMPLE NAME: RPM-N-SUM-08-08-01

ID#: 0108214-01A

File Name:	c081713	de la regional de la company	Date of Collec	tion: 8/8/01
Dil. Factor:	1.91		Date of Analy	sis: 8/17/01
Compound	Rpt, Limit (ppbv)	Rpt. Limit (uG/m3)	Amount (ppbv)	Amount (uG/m3)
Benzene	0.96	3.1	8.6	28
Toluene	0.96	3.6	. 5.4	20
Ethyl Benzene	0.96	4.2	1.3	5.7
m,p-Xylene	0.96	4.2	3.7	16
o-Xylene	0.96	4.2	1.4 J	6.3
Container Type: 6 Liter Summa	Canister		•	
Surrogates		%Recovery		Method Limits
1,2-Dichloroethane-d4		96		70-130
Toluene-d8		97		70-130
4-Bromofluorobenzene		101		70-130



SAMPLE NAME: RPM-E-SUM-08-08-01

ID#: 0108214-02A

EPA METHOD TO-14 GC/MS FULL SCAN

File Name: Dill. Factor:	c081714 2.01	Date of Collection: 8 Date of Analysis: 8/1		
Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	Amount (ppbv)	Amount (uG/m3)
Benzene	1.0	3.3	37	120
Toluene	1.0 .	3.8	16	62
Ethyl Benzene	1.0	4.4	5.7	25
m,p-Xylene	1.0	4.4	13	56
o-Xylene	1.0	4.4	5.0 J	22

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	97	
Toluene-d8	96	70-130
4-Bromofluorobenzene	100	70-130

J: ESTIMATED VALUE em

SAMPLE NAME: Lab Blank

ID#: 0108214-03A

File Name: Dil. Factor:	c081705 1.00		Date of Collect Date of Analy	
Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	Amount (ppbv)	Amount (uG/m3)
Benzene	0.50	1.6	Not Detected	Not Detected
Toluene	0.50	1.9	Not Detected	Not Detected
Ethyl Benzene	0.50	2.2	Not Detected	Not Detected
m,p-Xylene	0.50	2.2	Not Detected	Not Detected
o-Xylene	0.50	2.2	Not Detected	Not Detected
Container Type: NA - Not Applicable				•
Surrogates		%Recovery		Method Limits
1,2-Dichloroethane-d4		94	1.65 B 65 B	arra (d. 70-130)
Toluene-d8		103		70-130
4-Bromofluorobenzene		105		70-130

SAMPLE NAME: LCS

ID#: 0108214-04A

EPA METHOD TO-14 GC/MS FULL SCAN

E.R.C. (Burgles)	ollection: NA nalysis: 8/17/01

Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	%Recovery
Benzene	0.50	1.6	93
Toluene	0.50	1.9	108
Ethyl Benzene	0.50	2.2	106
m,p-Xylene	0.50	2.2	117
o-Xylene	0.50	2.2	133 Q

Q = Exceeds Quality Control limits.

Container Type: NA - Not Applicable

	Wethou
%Recovery	Limits
103	70-130
106	70-130
100	70-130
	103 106

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undinances of any bind. An Toxilis Lincost assumes in listliky with riphytic to the cellection, benefing or allowed at these samples. Politicalistic sometime also half-clear agreement to hold harmes, desired, and indepenty Ar Toxics United sometime, by picket, dement; or action of my lind, related to the cellection, handling or shapens of members. D.D.T. Holdne (1800) apprehing. Sample Transportation Notice

Notice of the spinning of the deciment indicates the complete and compliance FOLSOM, CA, 08830-4719.

With all application local, State, Eudern, military, and examinational laws, regulations and (816) 888-1000. FAX: (816) 885-1020.

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To the second se				Project Info: Project # Zulau-wi IM/SD-werk Project Warman Englant # Project Warman Englant
A TENNE OF THE SECOND STATES OF THE SECOND S				

WORK ORDER #: 0108235

Work Order Summary

CLIENT:

Ms. Kim Nichols

BILL TO:

Ms. Margaret Kelley

Burns & McDonnell

Burns & McDonnell

2601 W. 22nd St.

2601 W. 22nd St.

Oakbrook, IL . 60523-1229

Oakbrook, IL 60523-1229

PHONE:

630-990-0300x226

P.O. #

27194-4.07

FAX:

630-990-0301

PROJECT#

27194-4.07 Rogers Park Main

DATE RECEIVED:

8/11/01

CONTACT:

DeDe Dodge

DATE COMPLETED:

8/20/01

	•	•		RECEIPT
FRACTION#	NAME		TEST	VAC./PRES.
01A	RPM-N-SUM-08-09-01	e e e e e e e e e e e e e e e e e e e	TO-14	10.5 "Hg
02A	RPM-S-SUM-08-09-01		TO-14	11.0 "Hg
03A	RPM-E-SUM-08-09-01		TO-14	11.0 "Hg
- 04A	RPM-W-SUM-08-09-01		TO-14	_ 11.0 "Hg
05A	RPM-S-SUM-08-10-01		TO-14	13.0 "Hg
06A	RPM-W-SUM-08-10-01		TO-14	13.0 "Hg
07A	Lab Blank	-	TO-14	NA
- 08A	LCS		TO-14	NA

CERTIFIED BY:

08/20/01 DATE:

Laboratory Director

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> 180 BLUE RAVINE ROAD, SUITE B FOLSOM, CA - 95630 (916) 985-1000 . (800) 985-5955 . FAX (916) 985-1020

LABORATORY NARRATIVE TO-14

Burns & McDonnell Workorder# 0108235

Six 6 Liter Summa Canister samples were received on August 11, 2001. The laboratory performed analysis via EPA Method TO-14 using GC/MS in the full scan mode. The method involves concentrating up to 0.5 liters of air. The concentrated aliquot is then flash vaporized and swept through a water management system to remove water vapor. Following dehumidification, the sample passes directly into the GC/MS for analysis. See the data sheets for the reporting limits for each compound.

During the five point calibration, two low-level standards are used. The low-level standard for TO-14 compounds is spiked at 0.5 ppbv and represents the reporting limit for these compounds. The low-level standard for the non-TO-14 compounds is spiked at 2.0 ppbv and represents the reporting limit for these compounds. The TO-14 compounds are present in both standards but are excluded from reporting in the 2.0 ppbv standard since a lower level is already included in the curve.

Method modifications taken to run these samples include:

Requirement	TO-14	ATL Modifications
Internal standard retention times.	Not specified.	Within 0.50 minutes of most recent daily CCV internal standards
Internal standard recoveries.	Not specified.	Within 40% of the daily CCV internal standard area for blanks and samples.
Initial calibration criteria.	Not specified.	RSD of 30% or less for standard compounds, 40% or less for non-standard and polar compounds
Continuing calibration verification criteria	Not specified.	70 - 130% for at least 90% of standard compounds, 60 - 140% for at least 80% of non-standard and polar compounds
Response factor for quantitation.	Average response factor (ICAL).	Average response factor (ICAL).

Receiving Notes

There were no receiving discrepancies.

Analytical Notes

There were no analytical discrepancies.

Definition of Data Qualifying Flags

Seven qualifiers may have been used on the data analysis sheets and indicates as follows:

- B Compound present in laboratory blank greater than reporting limit(background subtraction not performed).
 - J Estimated value.
 - E Exceeds instrument calibration range.
 - S Saturated peak.
 - Q Exceeds quality control limits.
 - U Compound analyzed for but not detected above the reporting limit.
 - N The identification is based on presumptive evidence.

SAMPLE NAME: RPM-N-SUM-08-09-01

ID#: 0108235-01A

EPA METHOD TO-14 GC/MS FULL SCAN

c081915 2.06		Date of Collection: 8/9/01 Date of Analysis: 8/19/01		
Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	Amount (ppbv)	Amount (uG/m3)	
1.0	3.3	4.8	16 ,	
1.0	3.9.	3.7	14	
1.0	4.5	Not Detected	Not Detected	
1.0	4.5	2.6	11	
1.0	4.5	1.2	5.4	
	2.06 Rpt. Limit (ppbv) 1.0 1.0 1.0 1.0 1.0	2.06 Rpt. Limit (ppbv) (uG/m3) 1.0 3.3 1.0 3.9 1.0 4.5 1.0 4.5	2.06 Date of Analy Rpt. Limit (ppbv) Rpt. Limit (uG/m3) Amount (ppbv) 1.0 3.3 4.8 1.0 3.9 3.7 1.0 4.5 Not Detected 1.0 4.5 2.6	

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Limits
2-Dichloroethane-d4	93	70-130
Toluene-d8	104	70-130
4-Bromofluorobenzene	102	70-130

SAMPLE NAME: RPM-S-SUM-08-09-01

ID#: 0108235-02A

EPA METHOD TO-14 GC/MS FULL SCAN

Date of Collection: 8/9/01

Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	Amount (ppbv)	Amount (uG/m3)
Benzene	1.1	3.4	Not Detected	Not Detected
Toluene	. 1.1	4.0	1.3	5.0
Ethyl Benzene	1.1	4.7	Not Detected	Not Detected
n,p-Xylene	1.1	4.7	1.3	5.9
o-Xylene	1.1	4.7	Not Detected	Not Detected

Surrogates	%Recovery	Limits
1,2-Dichloroethane-d4	97	70-130
Toluene-d8	102	70-130
4-Bromofluorobenzene	98	70-130

SAMPLE NAME: RPM-E-SUM-08-09-01

ID#: 0108235-03A

EPA METHOD TO-14 GC/MS FULL SCAN

c081917 Date of Collection: 8/9/01

104

70-130

Dil. Factor:	2,12		Date of Analy	sis: 8/19/01
Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	Amount (ppbv)	Amount (uG/m3)
Benzene	1.1	3.4	6.6	21
Toluene .	1.1	4.0	4.1	- 16
Ethyl Benzene	1.1	4.7	1.4	6.3 ⁻
m,p-Xylene	1.1	4.7	4.3	. 19
o-Xylene	1.1	4.7	1.7	7.5
Container Type: 6 Liter Summa	a Canister		·	•
Surrogates		%Recovery		Method Limits
1,2-Dichloroethane-d4		94		70-130
Toluene-d8		101		70-130

4-Bromofluorobenzene

SAMPLE NAME: RPM-W-SUM-08-09-01

ID#: 0108235-04A

EPA METHOD TO-14 GC/MS FULL SCAN

File Name: Dil. Factor:	c081918 2.12		Date of Collect Date of Analy	
Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	Amount (ppbv)	Amount (uG/m3)
Benzene	1.1	3.4	Not Detected	Not Detected
Toluene	1.1	4.0	1.3	4.8
Ethyl Benzene	1.1	4.7	Not Detected	Not Detected
m,p-Xylene	1.1	4.7	2.5	- 11
o-Xylene	1.1	4.7	1.5	6.8

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Limits
1,2-Dichloroethane-d4	94	70-130
Toluene-d8	98	70-130
4-Bromofluorobenzene	104	70-130

SAMPLE NAME: RPM-S-SUM-08-10-01

ID#: 0108235-05A

File Name: DIL Factor:	c081919 2.36		Date of Collection: 8/10/01 Date of Analysis: 8/20/01	
Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	Amount (ppbv)	Amount (uG/m3)
Benzene	1.2	3.8	2.0	6.6
Toluene	1.2	4.5	2.0	7.5
Ethyl Benzene	1.2	5.2	Not Detected	Not Detected
m,p-Xylene	1.2	5.2	Not Detected	Not Detected
o-Xylene	1.2	5.2	Not Detected	Not Detected
Container Type: 6 Liter Summa	a Canister			Method
Surrogates		%Recovery		Limits
1,2-Dichloroethane-d4		94		70-130
Toluene-d8		97		70-130
4-Bromofluorobenzene		102		70-130

SAMPLE NAME: RPM-W-SUM-08-10-01

ID#: 0108235-06A

File Name: Dil. Factor:	c081920. 2.36		Date of Collection: 8/10/01 Date of Analysis: 8/20/01		
Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	Amount (ppbv)	Amount (uG/m3)	
Benzene	. 1.2	3.8	Not Detected	Not Detected	
Toluene	1.2	4.5	Not Detected	Not Detected	
Ethyl Benzene	1.2	5.2°	Not Detected	Not Detected	
m,p-Xylene	1.2	5.2	Not Detected	Not Detected	
o-Xylene	1.2	5.2	Not Detected	Not Detected	
Container Type: 6 Liter Summ	a Canister			•	
•	•			Method	
Surrogates		%Recovery		Limits	
1.2-Dichloroethane-d4		98		70-130	
Toluene-d8	·	99		70-130	
4-Bromofluorobenzene	•	103		70-130	

SAMPLE NAME: Lab Blank

ID#: 0108235-07A

File Name: Dil. Pactor:	c081906 1,00		Date of Collect Date of Analys	
Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	Amount (ppbv)	Amount (uG/m3)
Benzene	0.50	1.6	Not Detected	Not Detected
Toluene	0.50	1.9	Not Detected	Not Detected
Ethyl Benzene	0.50	2.2	Not Detected	Not Detected
m,p-Xylene	0.50	2.2	Not Detected	Not Detected
o-Xylene	0.50	2.2	Not Detected	Not Detected
Container Type: NA - Not Applicat	le			Method
Surrogates	· · · · · · · · · · · · · · · · · · ·	%Recovery		Limits
1,2-Dichloroethane-d4		89		70-130
Toluene-d8		105		70-130
4-Bromofluorobenzene		103		70-130

SAMPLE NAME: LCS

ID#: 0108235-08A

EPA METHOD TO-14 GC/MS FULL SCAN

D 4 20 U-45 - MA
File Name: c081903 Date of Collection; NA
Target Retailed
CMOID!
DIL Factor: 1,00 Date of Analysis: 8/19/01
DILL action.

Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	%Recovery
Benzene	0.50	1.6	93
Toluene .	0.50	1.9	108
Ethyl Benzene	0.50	2.2	105
m,p-Xylene	0.50	2.2	111
o-Xylene	0.50	2.2	126

Container Type: NA - Not Applicable

Comainer Types (III Net Types and			Method
Surrogates	%Recovery	· · · · · · · · · · · · · · · · · · ·	Limits -
1;2-Dichloroethane-d4	99	. A LESSE DESCRIPTION	a.v. 70-130
Toluene-d8	108		70-130
4-Bromofluorobenzene	98		70-130

AIR TOXICS LTD. AN ENVIRONMENTAL ANALYTICAL LABORATORY

CHAIN-OF-CUSTODY RECORD

Sample Transportation Notice.

180 BLUE RAVINE ROAD, SUITE B Relinquishing signature on this document indicates that sample is being shipped in compliance FOLSOM, CA 95630-4719 with all applicable local, State, Federal, national, and international laws, regulations and (916) 985-1000 FAX: (916) 985-1020 handling or shipping of these samples. Relinquishing signature also indicates agreement to hold harmless, defend, and indemnify Air Toxics Limited against any claim, demand, or action of any kind, related to the collection, handling, or shipping of samples. D.O.T. Hotline (800) 467-4922 ordinances of any kind. Air Toxics Limited assumes no liability with respect to the collection,

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AN ENVIRONMENTAL ANALYTICAL LABORATORY AJR TOXICS LTD.

CHAIN-OF-CUSTODY RECORD

Relinquishing signature on this document indicates that sample is being shipped in compliance FOLSOM, CA 95630-4719 with all applicable local, State, Federal, national, and international laws, regulations and (916) 985-1000 FAX; (916) ordinances of any kind. Air Toxics Limited assumes no liability with an expensive sample is being shipped in compliance FOLSOM, CA 95630-4719 with all applicable local, State, Federal, national, and international laws, regulations and (916) 985-1000 FAX; (916) ordinances of any kind. Air Toxics Limited assumes no liability with respect to the collection, handling or shipping of these samples. Relinquishing signature also indicates agreement to hold harmless, defend, and indemnify Air Toxics Limited against any claim, demand, or action of any kind, related to the collection, handling, or shipping of samples. D.O.T. Hotline (800) 467-4922

(916) 985-1000 FAX: (916) 985-1020 UITE B

Page L of L

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WORK ORDER #: 0108311

Work Order Summary

CLIENT:

Ms. Kim Nichols

BILL TO:

Ms. Margaret Kelley

Burns & McDonnell 2601 W. 22nd St. Burns & McDonnell 2601 W. 22nd St.

Oakbrook, IL 60523-1229

Oakbrook, IL 60523-1229

PHONE:

630-990-0300x226

P.O. #

Burns & McDonnell

FAX:

630-990-0301

PROJECT#

27194-4.07 Rogers Park Main

DATE RECEIVED:

8/15/01

CONTACT:

DeDe Dodge

DATE COMPLETED:

8/22/01

RECEIPT TEST VAC/PRES. FRACTION# NAME RPM-S-SUM-08-13-01 TO-14 9.0 "Hg ûίΑ 9.0 "Hg TO-14 02A RPM-W-SUM-08-13-01 02AA RPM-W-SUM-08-13-01 Duplicate TO-14 9.0 "Hg NA TO-14 03A Lab Blank 03B Lab Blank TO-14 NA TO-14 NA 04A **LCS** NΑ 04B LCS TO-14

CERTIFIED BY:

Sinda d. Fruman

DATE: <u>08/22/01</u>

Laboratory Director

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Certification numbers: CA ELAP - 1149, NY ELAP - 11291, UT ELAP - E-217, AZ ELAP - AZ0567, LA - AI 30763

180 BLUE RAVINE ROAD, SUITE B FOLSOM, CA - 95630 (916) 985-1000 (800) 985-5955 . FAX (916) 985-1020

LABORATORY NARRATIVE TO-14

Burns & McDonnell Workorder# 0108311

Two 6 Liter Summa Canister samples were received on August 15, 2001. The laboratory performed analysis via EPA Method TO-14 using GC/MS in the full scan mode. The method involves concentrating up to 0.5 liters of air. The concentrated aliquot is then flash vaporized and swept through a water management system to remove water vapor. Following dehumidification, the sample passes directly into the GC/MS for analysis. See the data sheets for the reporting limits for each compound.

During the five point calibration, two low-level standards are used. The low-level standard for TO-14 compounds is spiked at 0.5 ppbv and represents the reporting limit for these compounds. The low-level standard for the non-TO-14 compounds is spiked at 2.0 ppbv and represents the reporting limit for these compounds. The TO-14 compounds are present in both standards but are excluded from reporting in the 2.0 ppbv standard since a lower level is already included in the curve.

Method modifications taken to run these samples include:

Requirement	TO-14	ATL Modifications
Internal standard retention times.	Not specified.	Within 0.50 minutes of most recent daily CCV internal standards
Internal standard recoveries.	Not specified.	Within 40% of the daily CCV internal standard area for blanks and samples.
Initial calibration criteria.	Not specified.	RSD of 30% or less for standard compounds, 40% or less for non-standard and polar compounds
Continuing calibration verification criteria	Not specified.	70 - 130% for at least 90% of standard compounds, 60 - 140% for at least 80% of non-standard and polar compounds
Response factor for quantitation.	Average response factor (ICAL).	Average response factor (ICAL).

Receiving Notes

There were no receiving discrepancies.

Analytical Notes

There were no analytical discrepancies.

Definition of Data Qualifying Flags

Seven qualifiers may have been used on the data analysis sheets and indicates as follows:

- B Compound present in laboratory blank greater than reporting limit(background subtraction not performed).
 - J Estimated value.
 - E Exceeds instrument calibration range.
 - S Saturated peak.
 - Q Exceeds quality control limits.
 - U Compound analyzed for but not detected above the reporting limit.
 - N The identification is based on presumptive evidence.

SAMPLE NAME: RPM-S-SUM-08-13-01

ID#: 0108311-01A

c082024	er generalisch de Leite St. Krister (st. Station bei	Date of Collect Date of Analy	
Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	Amount (ppbv)	Amount (uG/m3)
0.96	3.1	2.6	8.3
0.96	3.6	1.1	4.4
0.96	4.2	Not Detected	Not Detected
0.96	4.2	Not Detected	Not Detected
0.96	4.2	Not Detected	Not Detected
anister			Method
	%Recovery	<u> </u>	Limits
	100	. akiber 4	-70-130_
	98	•	70-130
	105		70-130
	1.91 Rpt. Limit (ppbv) 0.96 0.96 0.96 0.96 0.96	Rpt. Limit (ppbv) (uG/m3) 0.96 3.1 0.96 3.6 0.96 4.2 0.96 4.2 0.96 4.2 anister %Recovery 100 98	Rpt. Limit

SAMPLE NAME: RPM-W-SUM-08-13-01

ID#: 0108311-02A

File Name: Dil, Factor: 1885	c082128 1.91		Date of Collection Date of Analysis	
Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	Amount (ppbv)	Amount (uG/m3)
Benzene	0.96	3.1	Not Detected	Not Detected
Toluene	0.96	3.6	Not Detected	Not Detected
Ethyl Benzene	0.96	4.2	Not Detected	Not Detected
m,p-Xylene	0.96	4.2	1.5	6.8
o-Xylene	0.96	4.2	Not Detected	Not Detected
Container Type: 6 Liter Summa	Canister			
Surrogates		%Recovery	. However	Method Limits
1,2-Dichloroethane-d4		97	y sucression of orthography	70-130
Toluene-d8		103		70-130
4-Bromofluorobenzene		104		70-130

SAMPLE NAME: RPM-W-SUM-08-13-01 Duplicate

ID#: 0108311-02AA

File Name: Dil. Factor:	c082129 1.91	g festion partitioner of the considerable of the con- traction of the con-	Date of Collect Date of Analys	
Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	Amount (ppbv)	Amount (uG/m3)
Benzene	0.96	3.1	Not Detected	Not Detected
Toluene	0.96	3.6	Not Detected	Not Detected
Ethyl Benzene	0.96	4.2	Not Detected	Not Detected
m,p-Xylene	0.96	4.2	1.4	6.0
o-Xylene	0.96	4.2	Not Detected	Not Detected
Container Type: 6 Liter Summa	Canister			
Surrogates		%Recovery		Method Limits
1,2-Dichloroethane-d4		96		70-130
Toluene-d8		103		70-130
4-Bromofluorobenzene		102		70-130

SAMPLE NAME: Lab Blank

ID#: 0108311-03A

File Name: Dil. Factor	c082007 1.00		Date of Collection Date of Analysis	
Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	Amount (ppbv)	Amount (uG/m3)
Benzene	0.50	1.6	Not Detected	Not Detected
Toluene	0.50	1.9	Not Detected	Not Detected
Ethyl Benzene	0.50	2.2	Not Detected	Not Detected
m,p-Xylene	0.50	2.2	Not Detected	Not Detected
o-Xylene	0.50	2.2	Not Detected	Not Detected
Container Type: NA - Not Applicable				Method
Surrogates		%Recovery	· ngret ,	Limits
1,2-Dichloroethane-d4		.96	9 4.7.20 ACT 2000 L	70-130
Toluene-d8		104		70-130
4-Bromofluorobenzene		102		70-130

SAMPLE NAME: Lab Blank

ID#: 0108311-03B

File Name: Dil. Factor:	c082110 1.00	ica da esta de produce de l'esta de la companya de la companya de la companya de la companya de la companya de La companya de la companya de	Date of Collect Date of Analy	
Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	Amount (ppbv)	Amount (uG/m3)
Benzene	0.50	1.6	Not Detected	Not Detected
Toluene	0.50	.1.9	Not Detected	Not Detected
Ethyl Benzene	0.50	2,2	Not Detected	Not Detected
m,p-Xylene	0.50	2.2	Not Detected	Not Detected
o-Xylene	0.50	2.2	Not Detected	Not Detected
Container Type: NA - Not Appl	icable			
Surrogates	en en en en en en en en en en en en en e	%Recovery		Method Limits
1,2-Dichloroethane-d4	ÆL,	.99		70-130
Toluene-d8		102		70-130
4-Bromofluorobenzene		107		70-130

SAMPLE NAME: LCS

ID#: 0108311-04A

Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	%Recovery
Benzene	0.50	1.6	93
Toluene	0.50	1.9	108
Ethyl Benzene	0.50	2.2	106
m,p-Xylene	0.50	2.2	106
o-Xylene	0.50	2.2	120

Surrogates	# Total	%Recovery	Limits
1,2-Dichloroethane-d4		100	70-130
Toluene-d8	•	108	70-130
4-Bromofluorobenzene		98	70-130

SAMPLE NAME: LCS

ID#: 0108311-04B

EPA METHOD TO-14 GC/MS FULL SCAN

File Name: c082103	Date of Collection: NA
Dil. Factor: 1.00	Date of Analysis: 8/21/01

Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	%Recovery
Benzene	0.50	1.6	. 94
Toluene .	0.50	1.9	106
Ethyl Benzene	0.50	2.2	112
m,p-Xylene	0.50	2.2	128
o-Xylene	0.50	2.2	140 Q

Q = Exceeds Quality Control limits.

Container Type: NA - Not Applicable

, the second sec		Wethod
Surrogates	%Recovery	Limits
1,2-Dichloroethane-d4	102	70-130
Toluene-d8	105	70-130
4-Bromofluorobenzene	106	70-130

AN ENVIRONMENTAL ANALYTICAL LABORATORY ALR TOXICS LTD.

CHAIN-OF-CUSTODY RECORD

Sample Transportation No.

Relinquishing signature on this document indicates that sample is being shipped in compliance FOLSOM, CA .95630-4719 with all applicable local, State, Federal, national, and international laws, regulations and (916) 985-1000 FAX: (916) 985-1020 harmless, defend, and indemnify Air Toxics Limited against any claim, demand, or action of any kind, related to the collection, handling, or shipping of samples. D.O.T. Hotline (800) 467-4922 ordinances of any kind. Air Toxics Limited assumes no liability with respect to the collection, handling or shipping of these samples. Relinquishing signature also indicates agreement to hold

180 BLUE RAVINE ROA

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Contact Person MARGINET LEI	E ((E)	Project info:	Turn Around Time:	Time.
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Phone 650-9010-0300 F/	FAX 630-990-030			Specify
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ID Field Sample I.D.	Date & Time	Analyses Requested	Initial	Initial Final Receipt
5m-8-5mm-08-13-01	8-801 /95/4V	TO NOT AVALUACE	100	8170 P - 5.8
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024 PAN-W-SNM-08-13-01	8-12-01/95 mes		79.5	B.ST 9.0"H1
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Uniy	-	The state of the s		

WORK ORDER #: 0108343

Work Order Summary

CLIENT:

Ms. Kim Nichols

BILL TO:

Ms. Margaret Kelley

Burns & McDonnell

Burns & McDonnell 2601 W. 22nd St.

2601 W. 22nd St. Oakbrook, IL 60523-1229

Oakbrook, IL 60523-1229

PHONE:

630-990-0300x226

P.O. # 27194-4.07

FAX:

630-990-0301

PROJECT#

27194-4.07 Rogers Park Main

DATE RECEIVED:

8/16/01

CONTACT:

DeDe Dodge

DATE COMPLETED:

8/23/01

			RECEIPT
TRACTION#	NAME	TEST	VAC/PRES.
čiA	RPM-N-SUM-08-14-01	TO-1-	12.0 "Hg
02A	RPM-S-SUM-08-14-01	TO-14	12.0 "Hg
03A	RPM-E-SUM-08-14-01	TO-14	7 0 "Hg
04A	RPM-W-SUM-08-14-01	TO-14	12.0 " H g
05A	Lab Blank	TO-14	NA
. 05B	Lab Blank	TO-14	NA
06A	LCS	TO-14	NA
- 06B	LCS	TO-14	NA

CERTIFIED BY:

08/23/01 DATE:

Laboratory Director

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Certification numbers: CA ELAP - 1149, NY ELAP - 11291, UT ELAP - E-217, AZ ELAP - AZ0567, LA - AI 30763

180 BLUE RAVINE ROAD, SUITE B FOLSOM, CA - 95630 (916) 985-1000 . (800) 985-5955 . FAX (916) 985-1020

LABORATORY NARRATIVE TO-14

Burns & McDonnell Workorder# 0108343

Four 6 Liter Summa Canister samples were received on August 16, 2001. The laboratory performed analysis via EPA Method TO-14 using GC/MS in the full scan mode. The method involves concentrating up to 0.5 liters of air. The concentrated aliquot is then flash vaporized and swept through a water management system to remove water vapor. Following dehumidification, the sample passes directly into the GC/MS for analysis. See the data sheets for the reporting limits for each compound.

During the five point calibration, two low-level standards are used. The low-level standard for TO-14 compounds is spiked at 0.5 ppbv and represents the reporting limit for these compounds. The low-level standard for the non-TO-14 compounds is spiked at 2.0 ppbv and represents the reporting limit for these compounds. The TO-14 compounds are present in both standards but are excluded from reporting in the 2.0 ppbv standard since a lower level is already included in the curve.

Method modifications taken to run these samples include:

Requirement	TO-14	ATL Modifications
Internal standard retention times.	Not specified.	Within 0.50 minutes of most recent daily CCV internal standards
Internal standard recoveries.	Not specified.	Within 40% of the daily CCV internal standard area for blanks and samples.
Initial calibration criteria.	Not specified.	RSD of 30% or less for standard compounds, 40% or less for non-standard and polar compounds
Continuing calibration verification criteria	Not specified.	70 - 130% for at least 90% of standard compounds, 60 - 140% for at least 80% of non-standard and polar compounds
Response factor for quantitation.	Average response factor (ICAL).	Average response factor (ICAL).

Receiving Notes

There were no receiving discrepancies.

Analytical Notes

There were no analytical discrepancies.

Definition of Data Qualifying Flags

Seven qualifiers may have been used on the data analysis sheets and indicates as follows:

- B Compound present in laboratory blank greater than reporting limit(background subtraction not performed).
 - J Estimated value.
 - E Exceeds instrument calibration range.
 - S Saturated peak.
 - Q Exceeds quality control limits.
 - U Compound analyzed for but not detected above the reporting limit.
 - N The identification is based on presumptive evidence.

SAMPLE NAME: RPM-N-SUM-08-14-01

ID#: 0108343-01A

File Name: Dil. Factor:	r082221		Date of Collection: 8/14/01 Date of Analysis: 8/22/01					
Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	Amount (ppbv)	Amount (uG/m3)				
Benzene	1.1	3.6	Not Detected	Not Detected				
Toluene	1.1	4.3	1.3	4.9				
Ethyl Benzene	1.1	4.9	Not Detected	Not Detected				
m,p-Xylene	1.1	4.9	Not Detected	Not Detected				
o-Xylene	1.1	4.9	Not Detected	Not Detected				
Container Type: 6 Liter Summa	Canister			Method				
Surrogates		%Recovery		Limits				
1,2-Dichloroethane-d4				70-130				
Toluene-d8		101		70-130				
4-Bromofluorobenzene		100		70-130				

SAMPLE NAME: RPM-S-SUM-08-14-01

ID#: 0108343-02A

File Name: Dil. Factor:	r08 <u>2227</u> 2.23		Date of Collection: 8/14/01 Date of Analysis: 8/22/01				
Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	Amount (ppbv)	Amount (uG/m3)			
Benzene	1.1	3.6	Not Detected	Not Detected			
Toluene	1.1	4.3	1.2	4.6			
Ethyl Benzene	1.1	4.9	Not Detected	Not Detected			
m,p-Xylene	1.1	4.9	1.3	5.6			
o-Xylene	1.1	4.9	Not Detected	Not Detected			
Container Type: 6 Liter Summa	a Canister						
Surrogates		%Recovery		Method Limits			
1,2-Dichloroethane-d4		116		70-130			
Toluene-d8	*	98	•	70-130			
4-Bromofluorobenzene		96		70-130			

SAMPLE NAME: RPM-E-SUM-08-14-01

ID#: 0108343-03A

File Name: Dil Factor:	r082308 1.75	10 (10 (10 (10 (10 (10 (10 (10 (10 (10 (Date of Collection: 8/14/01 Date of Analysis: 8/23/01			
Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	Amount (ppbv)	Amount (uG/m3)		
Benzene	0.88	2.8	Not Detected	Not Detected		
Toluene	0.88	3.4	1.2	4.7		
Ethyl Benzene	0.88	3.9	Not Detected	Not Detected		
m,p-Xylene	0.88	3.9	1.3	5.6		
o-Xylene	0.88	3.9	Not Detected	Not Detected		
Container Type: 6 Liter Summa	Canister					
Surrogates		%Recovery		Method Limits		
1,2-DichlorJethane-d4		110	<u></u>	. and ZO-130 .		
Foluene-d8		100		70-130		
4-Bromofluorobenzene		99		70-130		

SAMPLE NAME: RPM-W-SUM-08-14-01

ID#: 0108343-04A

File Name: Dil. Factor:	r082309 2.23		Date of Collection: 8/14/01					
Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	Amount (ppbv)	Amount (uG/m3)				
Benzene	1.1	3.6	Not Detected	Not Detected				
Toluene	1.1	4.3	1.2	4.5				
Ethyl Benzene	1.1	4.9	Not Detected	Not Detected				
m,p-Xylene	1.1	4.9	1.7	7.5				
o-Xylene		4.9	Not Detected	Not Detected				
Container Type: 6 Liter Summa	Canister		•					
Surrogates		%Recovery		Method Limits				
1,2-Dichloroethane-d4	a de la compania del compania del compania de la compania del la compania de la compania de la compania de la compania de la compania de la compania de la compania del la compania d	112		70-130				
Toluene-d8	0.	99		70-130				
4-Bromofluorobenzene		96		70-130				

SAMPLE NAME: Lab Blank

ID#: 0108343-05A

File Name: Dif. Factor:	r082205		Date of Collection: NA Date of Analysis: 8/22/01			
Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	Amount (ppbv)	Amount (uG/m3)		
Benzene	0.50	1.6	Not Detected	Not Detected		
Toluene	0.50	1.9	Not Detected	Not Detected		
Ethyl Benzene	0.50	2.2	Not Detected	Not Detected		
m,p-Xylene	0.50	2.2	Not Detected	Not Detected		
o-Xylene	0.50	2.2	Not Detected	Not Detected		
Container Type: NA - Not Appli	cable	,				
Surrogates	£ 11	%Recovery		Method Limits		
1,2-Dichloroethane-d4	a production of the	112		70-130		
Toluene-d8		100		70-130		
4-Bromofluorobenzene		100		70-130		

SAMPLE NAME: Lab Blank

ID#: 0108343-05B

Fite Name: DII: Factor	r082307 1		Date of Collection: NA Date of Analysis: 8/23/01				
Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	Amount (ppbv)	Amount (uG/m3)			
Benzene	0.50	1.6	Not Detected	Not Detected			
Toluene	0.50	1.9	Not Detected	Not Detected			
Ethyl Benzene	0.50	2.2	Not Detected	Not Detected			
m,p-Xylene	0.50	2.2	Not Detected	Not Detected			
o-Xylene	0.50	2.2	Not Detected	Not Detected			
Container Type: NA - Not Applicable	.	>					
Surrogates		%Recovery	y.	Method Limits			
1,2-Dichloroethane-44		110	San San San San San San San San San San	.,,c. 70-130			
Toluene-d8		98		70-130			
4-Bromofluorobenzene		96		70-130			

SAMPLE NAME: LCS

ID#: 0108343-06A

File Name: Dill Factor:	r082204 1.00	And the second s	Date of Collection: NA Date of Analysis: 8/22/01				
Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)		%Recovery			
Benzene	0.50	1.6		80			
Toluene	0.50	1.9		88			
Ethyl Benzene	0.50	2.2	•	91			
m,p-Xylene	0.50	2.2		96			
o-Xylene	0.50	2.2		114			
Container Type: NA - Not Applic	able						
Surrogates		%Recovery		Method Limits			
1,2-Dichloroer rane-d4		106	Car projections	aga:70-130			
Toluene-d8		104	• •	70-130			
4-Bromofluorobenzene		100		70-130			

SAMPLE NAME: LCS

ID#: 0108343-06B

File Name:	r082306		Date of Collection: NA				
Dil. Factor:	1.00	eng de sind by globald Lida en gand Composition	Date of Analysis	: 8/23/01			
Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)		%Recovery			
Benzene	0.50	1.6		98			
Toluene	0.50	1.9		97			
Ethyl Benzene	0.50	2.2		87			
m,p-Xylene	0.50	2.2	•	90			
o-Xylene	0.50	2.2		99			
Container Type: NA - Not Appl	licable						
Surrogates		%Recovery	num Wille	Method Limits			
₹ 2-Dichleroethane-d4		103	TO THE WAR STEEL THE STATE OF THE	7 0-130			
Foluene-d8		99		70-130			
4-Bromofluorobenzene		97	-	70-130			

CHAIN-OF-CUSTODY RECORD (1) AIR TOXICS LTD. AN ENVIRONMENTAL ANALYTICAL LABORATORY

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(916) 985-1000 FAX: (916) 985-1020

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830329087265 TOS	Air Bill # Opened By.	Received By (Signature) Da	Received By: (Sighature) Date/Time	8-14-01/2: DDOM			-		The state of the s	***************************************	1,10-11-8 12-11	(10 8-14-61)	110-114-01	1 10-11-8 10	Date & Time	2 Minush		City Ork Brook State	Mc Lowell	Kenca
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မ	#										12"#5		1) ± x		acuum Receipt			حقبيدس		

WORK ORDER #: 0108368

Work Order Summary

CLIENT:

Ms. Kim Nichols

BILL TO:

Ms. Margaret Kelley

Burns & McDonnell

Burns & McDonnell

2601 W. 22nd St.

2601 W. 22nd St.

Oakbrook, IL 60523-1229

Oakbrook, IL 60523-1229

PHONE:

630-990-0300x226

P.O. # 2719

27194-4.07

FAX:

630-990-0301

PROJECT#

27194-4.07 Rogers Park Main

DATE RECEIVED:

8/17/01

CONTACT:

DeDe Dodge

DATE COMPLETED:

8/24/01

RECEIPT VAC/PRES. **TEST** FRACTION# NAME 10.0."Hg TO-14 RPM-N-SUM-06-15-01 01ATO-14 î0.0 "Hg RPM-E-SUM-08-15-01 02A 10.5 "Hg TO-14 03A RPM-W-SUM-08-15-01 TO-14 NA Lab Blank 04A ÑΑ TO-14 05A LCS

CERTIFIED BY:

Sinda d. Fruman

DATE: U

08/24/01

Laboratory Director

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Certification numbers: CA ELAP - 1149, NY ELAP - 11291, UT ELAP - E-217, AZ ELAP - AZ0567, LA - AI 30763

180 BLUE RAVINE ROAD, SUITE B FOLSOM, CA - 95630 (916) 985-1000 . (800) 985-5955 . FAX (916) 985-1020

LABORATORY NARRATIVE

TO-14

Burns & McDonnell Workorder# 0108368

Three 6 Liter Summa Canister samples were received on August 17, 2001. The laboratory performed analysis via EPA Method TO-14 using GC/MS in the full scan mode. The method involves concentrating up to 0.5 liters of air. The concentrated aliquot is then flash vaporized and swept through a water management system to remove water vapor. Following dehumidification, the sample passes directly into the GC/MS for analysis. See the data sheets for the reporting limits for each compound.

During the five point calibration, two low-level standards are used. The low-level standard for TO-14 compounds is spiked at 0.5 ppbv and represents the reporting limit for these compounds. The low-level standard for the non-TO-14 compounds is spiked at 2.0 ppbv and represents the reporting limit for these compounds. The TO-14 compounds are present in both standards but are excluded from reporting in the 2.0 ppbv standard since a lower level is already included in the curve.

Method modifications taken to run these samples include:

Requirement	TO-14	ATL Modifications
Internal standard retention times.	Not specified.	Within 0.50 minutes of most recent daily CCV internal standards
Internal standard recoveries.	Not specified.	Within 40% of the daily CCV internal standard area for blanks and samples.
Initial calibration criteria.	Not specified.	RSD of 30% or less for standard compounds, 40% or less for non-standard and polar compounds
Continuing calibration verification criteria	Not specified.	70 - 130% for at least 90% of standard compounds, 60 - 140% for at least 80% of non-standard and polar compounds
Response factor for quantitation.	Average response factor (ICAL).	Average response factor (ICAL).

Receiving Notes

There were no receiving discrepancies.

Analytical Notes

There were no analytical discrepancies.

Definition of Data Qualifying Flags

Seven qualifiers may have been used on the data analysis sheets and indicates as follows:

- B Compound present in laboratory blank greater than reporting limit(background subtraction not performed).
 - J Estimated value.
 - E Exceeds instrument calibration range.
 - S Saturated peak.
 - Q Exceeds quality control limits.
 - U Compound analyzed for but not detected above the reporting limit.
 - N The identification is based on presumptive evidence.

SAMPLE NAME: RPM-N-SUM-08-15-01

ID#: 0108368-01A

File Name: Dij. Factor:	r082314- 2.01		Date of Collect Date of Analy	
Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	Amount (ppbv)	Amount (uG/m3)
Benzene	1.0	3.3	1.0	3.4
Toluene	1.0	3.8	1.9	7.3
Ethyl Benzene	1.0	4.4	Not Detected	Not Detected
m,p-Xylene	1.0	4.4	Not Detected	Not Detected
o-Xylene	1.0	4.4	Not Detected	Not Detected
Container Type: 6 Liter Summa	a Canister			Method
Surrogates		%Recovery		Limits
1,2-Dichloroethane-d4	بالعلى العلي المعلق المستوية عن التيادات الم	110		70-130
Toluene-d8		97	•	70-130
4-Bromofluorobenzene		110		70-130

SAMPLE NAME: RPM-E-SUM-08-15-01

ID#: 0108368-02A

File Name: DIL Factor:	r082315 2:01	aran akumut ang berang Malamangan belagan kak	Date of Collection: 8/15/91 Date of Analysis: 8/23/01			
Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	Amount (ppbv)	Amount (uG/m3)		
Benzene	- 1.0	3.3	Not Detected	Not Detected		
Toluene	1.0	3.8	2.4	9.1		
Ethyl Benzene	1.0	4.4	Not Detected	Not Detected		
m,p-Xylene	1.0	4.4	Not Detected	Not Detected		
o-Xylene	1.0	4.4	Not Detected	Not Detected		
Container Type: 6 Liter Summa	Canister					
Surrogates		%Recovery	#	Method Limits		
1,2-Dichloroethane_d4		115	a distribution we	70-130		
Toluene-d8		98	4 - 4 - 4	70-130		
4-Bromofluorobenzene		106		70-130		

SAMPLE NAME: RPM-W-SUM-08-15-01

ID#: 0108368-03A

File Name: Dil. Factor:	r082316 2.06		Date of Collection: 8/15/01 Date of Analysis: 8/23/01			
Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	Amount (ppbv)	Amount (uG/m3)		
Benzene	1.0	3.3	Not Detected	Not Detected		
Toluene	1.0	3.9	3.2	12		
Ethyl Benzene	1.0	4.5	Not Detected	Not Detected		
m,p-Xylene	1.0	4.5	1.3	5.6		
o-Xylene	1.0	4.5	Not Detected	Not Detected		
Container Type: 6 Liter Summa	Canister					
Surrogates		%Recovery	Ĵ	Method Limits		
1,2-Dichloroethane-d4		110				
Toluene-d8		99		70-130		
4-Bromofluorobenzene		106		70-130		

SAMPLE NAME: Lab Blank

ID#: 0108368-04A

•				
File Name:	1082307	ing parameter strong and	Date of Collec	tion: NA
Dil. Factor:	T:00		Date of Analys	is; 8/23/01
Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	Amount (ppbv)	Amount (uG/m3)
Benzene	0.50	1.6	Not Detected	Not Detected
Toluene	0.50	1.9	Not Detected	Not Detected
Ethyl Benzene	0.50	2.2	Not Detected	Not Detected
m,p-Xylene	0.50	2.2	Not Detected	Not Detected
o-Xylene	0.50	2.2	Not Detected	Not Detected
Container Type: NA - Not Appli	cable			
				Method
Surrogates		%Recovery	a jakan da	Limits
1,2-Dichloroethane-d4		., 1.10	. Latitation	a 70-130
Toluene-d8		98		70-130
4-Bromofluorobenzene		96	•	70-130

SAMPLE NAME: LCS

ID#: 0108368-05A

EPA METHOD TO-14 GC/MS FULL SCAN

File Name: r082	B06 Date of Collection:	
	.00 Date of Analysis: 1	

	Rpt. Limit	Rpt. Limit	
Compound	(ppbv)	(uG/m3)	%Recovery
Benzene	0.50	1.6	98
Toluene	0.50	1.9	97
Ethyl Benzene	0.50	2.2	87
m,p-Xylene	0.50	2.2	90
o-Xylene	0.50	2.2	99

Container Type: NA - Not Applicable

Surrogates	%Recovery	Limits
1,2-Dichloroethane-d4	. a	70-130
Toluene-d8	99	70-130
4-Bromofluorobenzene	97	70-130

CHAIN-OF-CUSTODY RECORD AN ENVIRONMENTAL ANALYTICAL LABORATORY

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Page ___ of __

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	(lemp ('C)		(-1)-01 10 >			The state of the s	The state of the s				W/X	P Z	WATER STREET	10 X	Analyse		70	0-080/		
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WORK ORDER #: 0108393

Work Order Summary

CLIENT:

Ms. Kim Nichols

BILL TO:

Ms. Margaret Kelley

Burns & McDonnell

Burns & McDonnell

2601 W. 22nd St.-

2601 W. 22nd St.

Oakbrook, IL 60523-1229

Oakbrook, IL 60523-1229

PHONE:

630-990-0300x226

P.O. #

27194-4.07

FAX:

630-990-0301

PROJECT#

27194-4.07 Rogers Park Main

DATE RECEIVED:

8/18/01

DATE COMPLETED:

8/27/01

CONTACT: DeDe Dodge

				RECEIPT
]	FRACTION #	<u>NAME</u>	TEST	VAC./PRES.
(01A	RPM-N-SUM-08-16-01	TO-14	10.0 "Hg
(02A	RPM-S-SUM-08-16-01	TO-14	10.0 "Hg
(03A	RPM-E-SUM-08-16-01	TO-14	10.0 "Hg
(04A	RPM-N-SUM-08-17-01	TO-14	10.0 "Hg
(05A	RPM-S-SUM-08-17-01	TO-14	10.0 "Hg
(06A	RPM-E-SUM-08-17-01	TO-14	10.0 "Hg
) (07A	RPM-W-SUM-08-17-01	TO-14	10.5 "Hg
. (08A	Lab Blank	TO-14	NA
(09A	LCS	TO-14	NA

CERTIFIED BY:

DATE:

08/27/01

Laboratory Director

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LABORATORY NARRATIVE TO-14

Burns & McDonnell Workorder# 0108393

Seven 6 Liter Summa Canister samples were received on August 18, 2001. The laboratory performed analysis via EPA Method TO-14 using GC/MS in the full scan mode. The method involves concentrating up to 0.5 liters of air. The concentrated aliquot is then flash vaporized and swept through a water management system to remove water vapor. Following dehumidification, the sample passes directly into the GC/MS for analysis. See the data sheets for the reporting limits for each compound.

During the five point calibration, two low-level standards are used. The low-level standard for TO-14 compounds is spiked at 0.5 ppbv and represents the reporting limit for these compounds. The low-level standard for the non-TO-14 compounds is spiked at 2.0 ppbv and represents the reporting limit for these compounds. The TO-14 compounds are present in both standards but are excluded from reporting in the 2.0 ppbv standard since a lower level is already included in the curve.

Method modifications taken to run these samples include:

Requirement	TO-14	ATL Modifications
Internal standard retention times.	Not specified.	Within 0.50 minutes of most recent daily CCV internal standards
Internal standard recoveries.	Not specified.	Within 40% of the daily CCV internal standard area for blanks and samples.
Initial calibration criteria.	Not specified.	RSD of 30% or less for standard compounds, 40% or less for non-standard and polar compounds
Continuing calibration verification criteria	Not specified.	70 - 130% for at least 90% of standard compounds, 60 - 140% for at least 80% of non-standard and polar compounds
Response factor for quantitation.	Average response factor (ICAL).	Average response factor (ICAL).

Receiving Notes

There were no receiving discrepancies.

Analytical Notes

There were no analytical discrepancies.

Definition of Data Qualifying Flags

Seven qualifiers may have been used on the data analysis sheets and indicates as follows:

- B Compound present in laboratory blank greater than reporting limit(background subtraction not performed).
 - J Estimated value.
 - E Exceeds instrument calibration range.
 - S Saturated peak.
 - Q Exceeds quality control limits.
 - U Compound analyzed for but not detected above the reporting limit.

N - The identification is based on presumptive evidence.

SAMPLE NAME: RPM-N-SUM-08-16-01

ID#: 0108393-01A

File Name: Dil. Factor;	r082706 2,01		Date of Collection: 8/16/01 Date of Analysis: 8/27/01				
Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	Amount (ppbv)	Amount (uG/m3)			
Benzene	1.0	3.3	Not Detected	Not Detected			
Toluene ·	1.0	3.8	1.8	7.1			
Ethyl Benzene	1.0	4.4	Not Detected	Not Detected			
m,p-Xylene	1.0	4.4	1.0	4.4			
o-Xylene	1.0	4.4	Not Detected	Not Detected			
Container Type: 6 Liter Summa	Canister			Method			
Surrogates		%Recovery		Limits			
1,2-Dichloroethane-d4		113		70-130			
Toluene-d8		99		70-130			
4-Bromofluorobenzene		99		70-130			

SAMPLE NAME: RPM-S-SUM-08-16-01

ID#: 0108393-02A

File Name:	r082707		Date of Collection: 8/16/01 Date of Analysis: 8/27/01	
Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	Amount (ppbv)	Amount (uG/m3)
Benzene	1.0	3.3	Not Detected	Not Detected
Toluene	1.0	3.8	1.4	5.4
Ethyl Benzene	1.0	4.4	Not Detected	Not Detected
m,p-Xylene	1.0	4.4	Not Detected	Not Detected
o-Xylene	1.0	4.4	Not Detected	Not Detected
Container Type: 6 Liter Summa	Canister			Method
Surrogates		%Recovery	·	Limits
1,2-Dichloroethane-d4		115		70-130
Toluene-d8		97		70-130
4-Bromofluorobenzene		99		70-130

SAMPLE NAME: RPM-E-SUM-08-16-01

ID#: 0108393-03A

EPA METHOD TO-14 GC/MS FULL SCAN

r082708

File Name:

Date of Collection: 8/16/01

Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	Amount (ppbv)	Amount (uG/m3)
Benzene	1.0	3.3	Not Detected	Not Detected
Toluene	1.0	3.8	1.3	5.0
Ethyl Benzene	1.0	4.4	Not Detected	Not Detected
m,p-Xylene	1.0	4.4	Not Detected	Not Detected
o-Xylene	1.0	4.4	Not Detected	Not Detected

		monsou
Surrogates	%Recovery	Limits
1,2-Dichloroethane-d4	114	70-130
Toluene-d8	96	70-130
4-Bromofluorobenzene	104	70-130

SAMPLE NAME: RPM-N-SUM-08-17-01

ID#: 0108393-04A

File Name: Dil: Factor:	r082709 2:01		Date of Collection: 8/17/01 Date of Analysis: 8/27/01	
Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	Amount (ppbv)	Amount (uG/m3)
Benzene	1.0	3.3	Not Detected	Not Detected
Toluene	1.0	3.8	Not Detected	Not Detected
Ethyl Benzene	1.0	4.4	Not Detected	Not Detected
m,p-Xylene	1.0	4.4	Not Detected	Not Detected
o-Xylene	1.0	4.4	Not Detected	Not Detected
Container Type: 6 Liter Summa	Canister			Method
Surrogates		%Recovery		Limits
1.2-Dichloroethane-d4		113		70-130
Toluene-d8		98		70-130
4-Bromofluorobenzene		97		70-130

SAMPLE NAME: RPM-S-SUM-08-17-01

ID#: 0108393-05A

File Names Dill Factor:	r082710 2.01		Date of Collection: 8/17/01 Date of Analysis: 8/27/01	
Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	Amount (ppbv)	Amount (uG/m3)
Benzene	1.0	3.3	Not Detected	Not Detected
Toluene	1.0	3.8	1.2	4.6
Ethyl Benzene	1.0	4.4	Not Detected	Not Detected
m,p-Xylene	1.0	4.4	Not Detected	Not Detected
o-Xylene	1.0	4.4	Not Detected	Not Detected
Container Type: 6 Liter Summa	Canister	%Recovery		Method Limits
Surrogates		112		70.400
1,2-Dichlorcethane-d4		99	3	70-130
Toluene-d8 4-Bromofluorobenzene		99 97		70-130 70-130

SAMPLE NAME: RPM-E-SUM-08-17-01

ID#: 0108393-06A

File Name: Dil. Factor:	r082711 2.01		Date of Collect Date of Analy	
Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	Amount (ppbv)	Amount (uG/m3)
Benzene	1.0	3.3	Not Detected	Not Detected
Toluene	1.0	3.8 ⁻	Not Detected	Not Detected
Ethyl Benzene	1.0	4.4	Not Detected	Not Detected
m,p-Xylene	1.0	4.4	Not Detected	Not Detected
o-Xylene	1.0	4.4	Not Detected	Not Detected
Container Type: 6 Liter Summa	Canister			لد مطلعت 100
Surrogates		%Recovery		Method Limits
1.2-Dichleroethane-da		115		-t 70-130
Toluene-d8		104		70-139
4-Bromofluorobenzene		100		70-130

SAMPLE NAME: RPM-W-SUM-08-17-01

ID#: 0108393-07A

EPA METHOD TO-14 GC/MS FULL SCAN

Date of Collection: 8/17/01

Not Detected

Not Detected

r082712

1.0

Dil. Factor:	2.06		Date of Analy	sis: 8/27/01
Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	Amount (ppbv)	Amount (uG/m3)
Benzene	1.0	3.3	Not Detected	Not Detected
Toluene	1.0	3.9	1.0 J	3.9 J
Ethyl Benzene	1.0	4.5	Not Detected	Not Detected
m.n-Xvlene	1.0	4.5	Not Detected	Not Detected

4.5

J = Estimated value.

o-Xylene

File Name:

Container Type: 6 Liter Summa Canister

a.	•	Mietuod
Surrogates	%Recovery	Limits
1,2-Dichloroethane-d4	106	· 70-130
Toluene-d8	96	70-130
4-Bromofluorobenzene	99	70-130

SAMPLE NAME: Lab Blank

ID#: 0108393-08A

File Name: Dil. Factor	r082705 1.00		Date of Collect Date of Analys	All the second second second
Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	Amount (ppbv)	Amount (uG/m3)
Benzene	0.50	1.6	Not Detected	Not Detected
Toluene	0.50	1.9	Not Detected	Not Detected
Ethyl Benzene	0.50	2.2	Not Detected	Not Detected
m,p-Xylene	0.50	2.2	Not Detected	Not Detected
o-Xylene	0.50	2.2	Not Detected	Not Detected
Container Type: NA - Not Applic	able			Mothod
Surrogates	· .	%Recovery		Method Limits
1.2-Dichlorpethane-d4		110		70-130
Toluene-d8		100		70-130
4-Bromofluorobenzene		99		70-130

SAMPLE NAME: LCS

ID#: 0108393-09A

EPA METHOD TO-14 GC/MS FULL SCAN

File Name: r082704 Date of Collection: NA Date of Analysis: 8/27/01	

	Rpt. Limit	Rpt. Limit	the second second
Compound	(ppbv)	(uG/m3)	%Recovery
Benzene	0.50	1.6	112
Toluene	0.50	1.9	109
Ethyl Benzene	0.50	2.2	94
m,p-Xylene	0.50	2.2	95
o-Xylene	0.50	2.2	98

Container Type: NA - Not Applicable

Surrogates	%Recovery		Limits
1,2-Dichloroethane-d4	105	5 1.341	70-130
Toluene-d8	102.		70-130
4-Bromofluorobenzene	99		70-130



CHAIN-OF-CUSTODY RECORD

Sample Transportation Notice
180 BLUE RAVINE ROAD, SUITE B
Relinquishing signature on this document indicates that sample is being shipped in compliance FOLSOM, CA 95630-4719
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LIR TOXICS LTD. AN ENVIRONMENTAL ANALYTICAL LABORATORY

CHAIN-OF-CUSTODY RECORD

Sample Transportation Notes Suite B 180 BLUE RAVINE RO SUITE B Relinquishing signature on this document indicates that sample is being shipped in compliance FOLSOM, CA 95630-4, with all applicable local, State, Federal, national, and international laws, regulations and (916) 985-1000 FAX: (916) 985-1020 ordinances of any kind. Air Toxics Limited assumes no liability with respect to the collection, handling or shipping of these samples. Relinquishing signature also indicates agreement to hold harmless, defend, and indemnify Air Toxics Limited against any claim, demand, or action of any kind, related to the collection, handling, or shipping of samples. D.O.T. Hotline (800) 467-4922

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WORK ORDER #: 0108479

Work Order Summary

CLIENT:

Ms. Kim Nichols

BILL TO: Ms. Margaret Kelley

Burns & McDonnell

Burns & McDonnell

2601 W. 22nd St.

2601 W. 22nd St.

Oakbrook, IL 60523-1229

Oakbrook, IL 60523-1229

PHONE:

630-990-0300x226

27194-4.07 P.O. #

FAX:

630-990-0301

PROJECT#

27194-4.07 Rogers Park Main

DATE RECEIVED:

8/22/01

CONTACT:

DeDe Dodge

DATE COMPLETED:

8/29/01

RECEIPT VAC/PRES. TEST FRACTION# NAME RPM-S-SUM-08-20-01 TO-14 10.0 Hg 01A 9.0 "Hg TO-14 02.5RPM-E-SUM-08-20-01 10.0 "Hg TO-14 RPM-W-SUM-08-20-01 03A NA 04A Lab Blank TO-14 TO-14 NA 05A LCS

CERTIFIED BY:

08/29/01

Laboratory Director

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LABORATORY NARRATIVE TO-14

Burns & McDonnell Workorder# 0108479

Three 6 Liter Summa Canister samples were received on August 22, 2001. The laboratory performed analysis via EPA Method TO-14 using GC/MS in the full scan mode. The method involves concentrating up to 0.5 liters of air. The concentrated aliquot is then flash vaporized and swept through a water management system to remove water vapor. Following dehumidification, the sample passes directly into the GC/MS for analysis. See the data sheets for the reporting limits for each compound.

During the five point calibration, two low-level standards are used. The low-level standard for TO-14 compounds is spiked at 0.5 ppbv and represents the reporting limit for these compounds. The low-level standard for the non-TO-14 compounds is spiked at 2.0 ppbv and represents the reporting limit for these compounds. The TO-14 compounds are present in both standards but are excluded from reporting in the 2.0 ppbv standard since a lower level is already included in the curve.

Method modifications taken to run these samples include:

Requirement	TO-14	ATL Modifications
Internal standard retention times.	Not specified.	Within 0.50 minutes of most recent daily CCV internal standards
Internal standard recoveries.	Not specified.	Within 40% of the daily CCV internal standard area for blanks and samples.
Initial calibration criteria.	Not specified.	RSD of 30% or less for standard compounds, 40% or less for non-standard and polar compounds
Continuing calibration verification criteria	Not specified.	70 - 130% for at least 90% of standard compounds, 60 - 140% for at least 80% of non-standard and polar compounds
Response factor for quantitation.	Average response factor (ICAL).	Average response factor (ICAL).

Receiving Notes

There were no receiving discrepancies.

Analytical Notes

There were no analytical discrepancies.

Definition of Data Qualifying Flags

Seven qualifiers may have been used on the data analysis sheets and indicates as follows:

- B Compound present in laboratory blank greater than reporting limit(background subtraction not performed).
 - J Estimated value.
 - E Exceeds instrument calibration range.
 - S Saturated peak.
 - Q Exceeds quality control limits.
 - U Compound analyzed for but not detected above the reporting limit.
 - N The identification is based on presumptive evidence.

SAMPLE NAME: RPM-S-SUM-08-20-01

ID#: 0108479-01A

File Name: h Dil. Factor:	F08 273 0		Date of Collection: 8/20/91 Date of Analysis: 8/28/01		
Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	Amount (ppbv)	Amount (uG/m3)	
Benzene	1.0	3.3	Not Detected	Not Detected	
Toluene	1.0	3.8	Not Detected	Not Detected	
Ethyl Benzene	1.0	4.4	Not Detected	Not Detected	
m,p-Xylene	1.0	4.4	Not Detected	Not Detected	
o-Xylene	1.0	4.4	Not Detected	Not Detected	
Container Type: 6 Liter Summa	a Canister	•		Method	
Surrogates	•	%Recovery		Limits	
1,2-Dichloroethane-d4		119		70-130	
Toluene-d8		104		70-130	
4-Bromofluorobenzene	•	95		70-130	

SAMPLE NAME: RPM-E-SUM-08-20-01

ID#: 0108479-02A

File Name: Dil. Factor:	r082731 1.91		Date of Collection: 8/20/01 Date of Analysis: 8/28/01		
Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	Amount (ppbv)	Amount (uG/m3)	
Benzene	0.96	3.1	Not Detected	Not Detected	
Toluene	0.96	3.6	1.2	4.6	
Ethyl Benzene	0.96	4.2	Not Detected	Not Detected	
m,p-Xylene	0.96	4.2	Not Detected	Not Detected	
o-Xylene	0.96	4.2	Not Detected	Not Detected	
Container Type: 6 Liter Summa	a Canister				
Surrogates		%Recovery		Method Limits	
1,2-Dichloroethane-d4		119	And Anti-	70-130	
Toluene-d8		102		70-130	
4-Bromofluorobenzene	·	99		70-130	

SAMPLE NAME: RPM-W-SUM-08-20-01

ID#: 0108479-03A

File Name: Dill Factor:	r082732 2.01		Date of Collection: 8/20/01 Date of Analysis: 8/28/01			
Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	Amount (ppbv)	Amount (uG/m3)		
Benzene	1.0	3.3	Not Detected	Not Detected		
Toluene	1.0	3.8	1.2	4.7		
Ethyl Benzene	1.0	4.4	Not Detected	Not Detected		
m,p-Xylene	1.0	4.4	1.4	6.2		
o-Xylene	1.0	4.4	Not Detected	Not Detected		
Container Type: 6 Liter Summa	Canister					
Surrogates		%Recovery		Method Limits		
1,2-Dichloroethane-d4		119		70-130		
Toluene-d8		102		70-130		
4-Bromofluorobenzene		98	,	70-130		

SAMPLE NAME: Lab Blank

ID#: 0108479-04A

File Name: Dil. Factor:	r082719 1.00		Date of Collection: NA Date of Analysis: 8/27/01		
Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	Amount (ppbv)	Amount (uG/m3)	
Benzene	0.50	1.6	Not Detected	Not Detected	
Toluene	0.50	1.9	Not Detected	Not Detected	
Ethyl Benzene	0.50	2.2	Not Detected	Not Detected	
m,p-Xylene	0.50	2.2	Not Detected	Not Detected	
o-Xylene	0.50	2.2	Not Detected	Not Detected	
Container Type: NA - Not Appli	cable				
Surrogates		%Recovery		Method Limits	
1,2-Dichloroethane-d4		109 -		70-130	
Toluene-d8		98		79-130	
4-Bromofluorobenzene		94		70-130	

SAMPLE NAME: LCS

ID#: 0108479-05A

File Name: Dil. Factor:	r082718 1.00		Date of Collection: NA Date of Analysis: 8/27/01		
Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	%Recovery		
Benzene	0.50	1.6	78		
Toluene	0.50	1.9	84		
Ethyl Benzene	0.50	2.2	90		
m,p-Xylene	0.50	2.2	95		
o-Xylene	0.50	2.2	110		
Container Type: NA - Not Appli	cable		Method		
Surrogates		%Recovery	Limits		
1,2-Dichloroethane-d4		105	70-130		
Toluene-d8		102	70-130		
4-Bromofluorobenzene		99	70-130		

AN ENVIRONMENTAL ANALYTICAL LABORATORY

CHAIN-OF-CUSTODY RECORD

Sample Transportation Note: Be Sample Transportation Note: 180 BLUE RAVINE ROLE OF SAMPLE REJIDED IN BELIE RAVINE ROLE OF SAMPLE BELIEVED IN STATE OF SAMPLE SAMPLE SAMPLE SAMPLE SAMPLE SAMPLE SAMPLE BELIEVED IN SAMPLE SAMPLE BELIEVED IN SAMPLE BELIEVED SAMPLE BELIEVED IN SAMPLE BELIEVED SAMPLE BELIEVED IN SAMPLE BELIEVED SAMPLE BELI ordinances of any kind. Air Toxics Limited assumes no liability with respect to the collection, handling or shipping of these samples. Relinquishing signature also indicates agreement to hold harmless, defend, and indemnify Air Toxics Limited against any claim, demand, or action of any kind, related to the collection, handling, or shipping of samples. D.O.T. Hotline (800) 467-4922

Page ___ of _

Turn Around Time: Normal	Use 173 130 3271 277 3 7025 TAS. AMBIGIE GOODS YES NO	Shipper Name Air Bill # Opened By Temp. (°C) Condition	Heimquished By: (Signature) Date/Time Received By: (Signature) Date/Time	received By: (signature) Date/Time	Date/Time (\$ 20-6	Relinquished By: (Signature) .Date/Time Received By: (Signature) .Date/Time			COM W SAM DES ZON OF BY 20-01 FROM THE SAME TH	2 CPM·E-SNW-05-20-01 8-30-01 BTEX	1 82001 TTEX	KOM-N-SOM CE20-01 GOD-01/OSGS LETTEN DO NOTAMENTE	Field Sample I.D. Date & Time Analyses Requested	Collected By: Signature	Company P.O. # P.O. # P.O. # P.O. # Project # 27/04-4-07 Phone Project Name Project Name Project Name Project Name Project Name Project Name Project Name Project Name Project Name Project Name Project Name
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WORK ORDER #: 0108517

Work Order Summary

CLIENT:

Ms. Kim Nichols

BILL TO: Ms. Margaret Kelley

Burns & McDonnell

Burns & McDonnell 2601 W. 22nd St.

2601 W. 22nd St.

Oakbrook, IL 60523-1229

Oakbrook, IL 60523-1229

PHONE:

630-990-0300x226

P.O. #

27194-4.07

FAX:

630-990-0301

PROJECT#

27194-4.07 Rogers Park Main

DATE RECEIVED:

8/23/01

CONTACT:

DeDe Dodge

DATE COMPLETED:

8/30/01

RECEIPT VACJPRES. TEST NAME FRACTION 9.0 "Hg JO 15 RPM-N-SUM-08-21-01 Ola 9.0 "Hg ТО-1 ч RPM-E-SUM-08-21-01 02A NA TO-14 Lab Blank 03A NA TO-14 04A LCS

CERTIFIED BY:

finda d. Fruman

08/30/01 DATE:

Laboratory Director

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> 180 BLUE RAVINE ROAD, SUITE B FOLSOM, CA - 95630 (916) 985-1000 . (800) 985-5955 . FAX (916) 985-1020

LABORATORY NARRATIVE

TO-14

Burns & McDonnell Workorder# 0108517

Two 6 Liter Summa Canister samples were received on August 23, 2001. The laboratory performed analysis via EPA Method TO-14 using GC/MS in the full scan mode. The method involves concentrating up to 0.5 liters of air. The concentrated aliquot is then flash vaporized and swept through a water management system to remove water vapor. Following dehumidification, the sample passes directly into the GC/MS for analysis. See the data sheets for the reporting limits for each compound.

During the five point calibration, two low-level standards are used. The low-level standard for TO-14 compounds is spiked at 0.5 ppbv and represents the reporting limit for these compounds. The low-level standard for the non-TO-14 compounds is spiked at 2.0 ppbv and represents the reporting limit for these compounds. The TO-14 compounds are present in both standards but are excluded from reporting in the 2.0 ppbv standard since a lower level is already included in the curve.

Method modifications taken to run these samples include:

Requirement	TO-14	ATL Modifications	
Internal standard retention times.	Not specified.	Within 0.50 minutes of most recent daily CCV internal standards	
Internal standard recoveries. Not specified.		Within 40% of the daily CCV internal standard area for blanks and samples.	
Initial calibration criteria.	Not specified.	RSD of 30% or less for standard compounds, 40% or less for non-standard and polar compounds	
Continuing calibration Not specified. verification criteria		70 - 130% for at least 90% of standard compounds, 60 - 140% for at least 80% of non-standard and polar compounds	
Response factor for quantitation. Average response factor (ICAL).		Average response factor (ICAL).	

Receiving Notes

There were no receiving discrepancies.

Analytical Notes

There were no receiving discrepancies.

Definition of Data Qualifying Flags

Seven qualifiers may have been used on the data analysis sheets and indicates as follows:

- B Compound present in laboratory blank greater than reporting limit(background subtraction not performed).
 - J Estimated value.
 - E Exceeds instrument calibration range.
 - S Saturated peak.
 - Q Exceeds quality control limits.
 - U Compound analyzed for but not detected above the reporting limit.
 - N The identification is based on presumptive evidence.

SAMPLE NAME: RPM-N-SUM-08-21-01

ID#: 0108517-01A

File Name:		Date of Collection: 8/21/01			
Dil. Factor:	1.91		Date of Analysis	: 8/28/01	
Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	Amount (ppbv)	Amount (uG/m3)	
Benzene	0.96	3.1	Not Detected	Not Detected	
Toluene	0.96	3.6	2.3	8.8	
Ethyl Benzene	0.96	4.2	Not Detected	Not Detected	
m,p-Xylene	0.96	4.2	1.7	7.4	
o-Xylene	0.96	4.2	Not Detected	Not Detected	
Container Type: 6 Liter Summa	a Canister			Method	
Surrogates .		%Recovery	t janganga j	Limits	
1,2-Dichloroethane-d4		120	ر (۱۹۹۱) (۱۹۹۱) تور (۱۹۹۱)	70-130	
Toluene-d8		101	• .	70-130	
4-Bromofluorobenzene		100		70-130	

SAMPLE NAME: RPM-E-SUM-08-21-01

ID#: 0108517-02A

File Name: Dif. Factor:	7 r082734		Date of Collection: 8/21/01 Date of Analysis: 8/28/01			
Compound	Rpt, Limit (ppbv)	Rpt. Limit (uG/m3)	Amount (ppbv)	Amount (uG/m3)		
Benzene	0.96	3.1	Not Detected	Not Detected		
Toluene	0.96	3.6	2.3	8.9		
Ethyl Benzene	0.96	4.2	Not Detected	Not Detected		
m,p-Xylene	0.96	4.2	1.1	5.0		
o-Xylene	0.96	4.2	Not Detected	Not Detected		
Container Type: 6 Liter Summa	ı Canister			•		
Surrogates		%Recovery		Method Limits		
1,2-Dichloroethane-d4		126	2 , 21.114	70-130		
Toluene-d8		100	•	70-130		
4-Bromofluorobenzene		100		70-130		

SAMPLE NAME: Lab Blank

ID#: 0108517-03A

EPA METHOD TO-14 GC/MS FULL SCAN

File Name: Dil. Factor:	r082/19 1.00	farming a sector areas		Date of Analysis, 8/27/01		
Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	Amount (ppbv)	Amount (uG/m3)		
Benzene	0.50	1.6	Not Detected	Not Detected		
Toluene	0.50	1.9	Not Detected	Not Detected		
Ethyl Benzene	0.50	2.2	Not Detected	Not Detected		
m,p-Xylene	0.50	2,2	Not Detected	Not Detected		
o-Xylene	0.50	2.2	Not Detected	Not Detected		
Container Type: NA - Not Applica	able					
				Method		
Surrogates		%Recovery		Limits		
1,2-Dichloroethane-d4	٠. ي	109		70-130		
Toluene-d8		98		70-130		

4-Bromofluorobenzene

94

70-130

SAMPLE NAME: LCS

ID#: 0108517-04A

EPA METHOD TO-14 GC/MS FULL SCAN

	Collection: NA Analysis: 8/27/01
Dil. Factor: 1.00 Uate of	Analysis: 8/2//UI

Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	%Recovery
Benzene	0.50	1.6	78
Toluene	0.50	1.9	84
Ethyl Benzene	0.50	2.2	90
m,p-Xylene	0.50	2.2	95
o-Xylene	0.50	2.2	110

Container Type: NA - Not Applicable

Surrogates		.,	%Recovery		Method Limits
Surrogates			offectivery	·	E (11)(0
1,2-Dichloroethane-d4		J.S.	105		agr 70-130
Toluene-d8	•		102		70-130
4-Bromofluorobenzene			99		70-130



Sample Transportation Notice

180 BLUE RAVINE ROAD, SUITE B Relinquishing signature on this document indicates that sample is being shipped in compliance FOLSOM, CA 95630-4719 with all applicable local, State, Federal, national, and international laws, regulations and (916) 985-1000 FAX: (916) 985-1020 harmless, defend, and indemnify Air Toxics Limited against any claim, demand, or action of any kind, related to the collection, handling, or shipping of samples. D.O.T. Hotline (800) 467-4922 ordinances of any kind. Air Toxics Limited assumes no liability with respect to the collection, handling or shipping of these samples. Relinquishing signature also indicates agreement to hold

Lab Use Only	Relinquished By: (Signature) Relinquished By: (Signature)			34/1/2		Lab	Contact Person Company Address Address Phone Phone Collected By: Signature	
Shipper Name	Relinquished By: (Signature) Date/Time Relinquished By: (Signature) Date/Time		7.7	Be M. M. Salve and M. H. Sh	10-12-90-4015-5-421 10-12-90-4015-5-421	Field Sample I.D.	Contact Person WMSMST Company WARRANGE MARCHES Address	
92777 2			The state of the s	M. J. S.	10-12-01	e I.D.		
Air Bill # スウスワか込	Received By: (Signature) Received By: (Signature) Received By: (Signature)			0207	8-21-01	Date & Time	City Chy &	
Opened By	Received By: (Signature) Date/Time Received By: (Signature) Date/Time Received By: (Signature) Date/Time				19.75/kas	k Time	State C	
y. Temp. (°C)	Time Time Time			Same of the Same			Zip	
(°C)	907			Section of the sectio		Analyses	Pr Pr	
Condition	Notes:				JOTAN	Analyses Requested	Project info: P.O. # Shews Hold Character Project # 27/34/-4.27 Project Name Const Fract	-
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S ody s	Mark Co			7			Trace Inventor	
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0 1 0 8 5	May		.30		975	Canister Pressure / Vacuum		rage .
Work Older# 0108517						/ Vacuum Receipt	·	- 으 -



WORK ORDER #: 0108550

Work Order Summary

CLIENT:

Ms. Kim Nichols

BILL TO:

Ms. Margaret Kelley

Burns & McDonnell

Burns & McDonnell 2601 W. 22nd St.

2601 W. 22nd St. Oakbrook, IL 60523-1229

Oakbrook, IL 60523-1229

PHONE:

630-990-0300x226

P.O. #

Burns & McDonnell

FAX:

630-990-0301

PROJECT#

27194-4.07 Rogers Park Main

DATE RECEIVED:

8/24/01

CONTACT:

DeDe Dodge

DATE COMPLETED:

8/30/01

			RECEIPT
FRACTION#	<u>NAME</u>	TEST	VAC/PRES.
01A	RPM-N-SUM-08-22-01	ŤO-14	10.0 "Hg
02A	RPM-S-SUM-08-22-01	TO-14	10.0 "Hg
03A	RPM-E-SUM-08-22-01	TO-14	10.0 "Hg
04A	RPM-W-SUM-08-22-01	TO-14	10.0 "Hg
04AA	RPM-W-SUM-08-22-01 Duplicate	TO-14	10.0 "Hg
≥ 05A	Lab Blank	TO-14	NA
€ 06A	LCS	TO-14	NA

CERTIFIED BY:

08/31/01 DATE:

Laboratory Director

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Certification numbers: CA ELAP - 1149, NY ELAP - 11291, UT ELAP - E-217, AZ ELAP - AZ0567, LA - AI 30763

180 BLUE RAVINE ROAD, SUITE B FOLSOM, CA - 95630 (916) 985-1000 . (800) 985-5955 . FAX (916) 985-1020

LABORATORY NARRATIVE

TO-14

Burns & McDonnell Workorder# 0108550

Four 6 Liter Summa Canister samples were received on August 24, 2001. The laboratory performed analysis via EPA Method TO-14 using GC/MS in the full scan mode. The method involves concentrating up to 0.5 liters of air. The concentrated aliquot is then flash vaporized and swept through a water management system to remove water vapor. Following dehumidification, the sample passes directly into the GC/MS for analysis. See the data sheets for the reporting limits for each compound.

During the five point calibration, two low-level standards are used. The low-level standard for TO-14 compounds is spiked at 0.5 ppbv and represents the reporting limit for these compounds. The low-level standard for the non-TO-14 compounds is spiked at 2.0 ppbv and represents the reporting limit for these compounds. The TO-14 compounds are present in both standards but are excluded from reporting in the 2.0 ppbv standard since a lower level is already included in the curve.

Method modifications taken to run these samples include:

Requirement	TO-14	ATL Modifications	
Luternal standard retention times.	Not specified.	Within 0.50 minutes of most recent daily CCV internal standards	
Internal standard recoveries.	Not specified.	Within 40% of the daily CCV internal standard area blanks and samples.	
Initial calibration criteria.	Not specified.	RSD of 30% or less for standard compounds, 40% or less for non-standard and polar compounds	
Continuing calibration verification criteria	Not specified.	70 - 130% for at least 90% of standard compounds, 60 - 140% for at least 80% of non-standard and polar compounds	
Response factor for quantitation.	Average response factor (ICAL).	Average response factor (ICAL).	

Receiving Notes

There were no receiving discrepancies.

Analytical Notes

There were no analytical discrepancies.

Definition of Data Qualifying Flags

Seven qualifiers may have been used on the data analysis sheets and indicates as follows:

- B Compound present in laboratory blank greater than reporting limit(background subtraction not performed).
 - J Estimated value.
 - E Exceeds instrument calibration range.
 - S Saturated peak.
 - Q Exceeds quality control limits.
 - U Compound analyzed for but not detected above the reporting limit.
 - N The identification is based on presumptive evidence.

SAMPLE NAME: RPM-N-SUM-08-22-01

ID#: 0108550-01A

File Name: r082721 Dil. Factor: 2:01			Date of Collection: 8/22/01 Date of Analysis: 8/27/01		
Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	Amount (ppbv)	Amount (uG/m3)	
Benzene	1.0	3.3	Not Detected	Not Detected	
Toluene	1.0	3.8	1.6	6.1	
Ethyl Benzene	1.0	4.4	Not Detected	Not Detected	
m,p-Xylene	1.0	4.4	Not Detected	Not Detected	
o-Xylene	1.0	4.4	Not Detected	Not Detected	
Container Type: 6 Liter Summa C	anister			Method	
Surrogates		%Recovery		Limits	
1,2-Dichlor@thane-d4		125	. a same di A	70-130	
Toluene-d&		103		70-130	
4-Bromofluorobenzene		98		70-130	

SAMPLE NAME: RPM-S-SUM-08-22-01

ID#: 0108550-02A

File Name: Dil. Factor:	r082722 2.01		Date of Collection: 8/22/01 Date of Analysis: 8/27/01		
Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	Amount (ppbv)	Amount (uG/m3)	
Benzene	1.0	3.3	Not Detected	Not Detected	
Toluene	1.0	3.8	5.3	20	
Ethyl Benzene	1.0	4.4	Not Detected	Not Detected	
m,p-Xylene	1.0	4.4	Not Detected	Not Detected	
o-Xylene	1.0	4.4	Not Detected	Not Detected	
Container Type: 6 Liter Summa	a Canister			Method	
Surrogates		%Recovery	* ***	Limits	
1,2-Dichloroethane-d4		124	the second second	. 70-130	
Toluene-d8		103		70-130	
4-Bromofluorobenzene		98		70-130	

SAMPLE NAME: RPM-E-SUM-08-22-01

ID#: 0108550-03A

EPA METHOD TO-14 GC/MS FULL SCAN

Dil. Factor:	2.01	2.01		Date of Analysis: 8/27/01		
Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	Amount (ppbv)	Amount (uG/m3)		
Benzene	1.0	3.3	Not Detected	Not Detected		
Toluene	1.0	3.8	5.0	19		
Ethyl Benzene	1.0	4.4	Not Detected	Not Detected		
m,p-Xylene	1.0	4.4	1.0 J	4.4 J		
o-Xylene	1.0	4.4	Not Detected	Not Detected		

J = Estimated value.

Container Type: 6 Liter Summa Canister

. 	· · · · · · · · · · · · · · · · · · ·	Method
Surrogates	%Recovery	Limits
1,2-Dichloroethane-d4	115	70-130
Toluene-d8	103	70-130
4-Bromofluorobenzene	97	70-130

SAMPLE NAME: RPM-W-SUM-08-22-01

ID#: 0108550-04A

r082724 2.01	enne profesional and Les violentes propries and Les violentes propries de la	Date of Collection: 8/22/01 Date of Analysis: 8/28/01		
Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	Amount (ppbv)	Amount (uG/m3)	
1.0	3.3	Not Detected	Not Detected	
1.0	3.8	4.9	19	
1.0	4.4	Not Detected	Not Detected	
1.0	4.4	Not Detected	Not Detected	
1.0	4.4	Not Detected	Not Detected	
Canister				
			Method	
	%Recovery	<u> </u>	Limits	
-	11.8	e · •	70-130	
	103		70-130	
	100		70-130	
	2:01 Rpt. Limit (ppbv) 1.0 1.0 1.0 1.0 1.0	Part. Limit (ppbv) (uG/m3) 1.0 3.3 1.0 3.8 1.0 4.4 1.0 4.4 1.0 4.4 1.0 4.4 1.0 1.0 4.4 1.0 1.0 1.0 Canister **Recovery** 118 103	2:01 Pate of Analy Rpt. Limit (ppbv) (uG/m3) (ppbv) 1.0 3.3 Not Detected 1.0 3.8 4.9 1.0 4.4 Not Detected 1.0 4.4 Not Detected 1.0 4.4 Not Detected Canister **Recovery**	

SAMPLE NAME: RPM-W-SUM-08-22-01 Duplicate

ID#: 0108550-04AA

EPA METHOD TO-14 GC/MS FULL SCAN

r082725

1.0

1.0

Date of Collection: 8/22/01

1.0

Not Detected

4.4

Not Detected

Dil. Factor:	2.01	2.01 Date of Analysis: 8/28/01				
Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	Amount (ppbv)	Amount (uG/m3)		
Benzene	1.0	3.3	Not Detected	Not Detected		
Toluene	1.0	3.8	4.8	18		
Ethyl Benzene	1.0	4.4	Not Detected	Not Detected		

4.4

4.4

Container Type: 6 Liter Summa Canister

m,p-Xylene

o-Xylene

Surrogates	%Recovery	Wethod Limits
1,2-Dichloroethane-d4		
Toluene-d8	101	. 70-130 .
4-Bromofluorobenzene	96	70-130

SAMPLE NAME: Lab Blank

ID#: 0108550-05A

File Name:	r082719		Date of Collection: NA		
Dil. Factor:	1.00		Date of Analy	sis: 8/27/01	
Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	Amount (ppbv)	Amount (uG/m3)	
Benzene	0.50	1.6	Not Detected	Not Detected	
Toluene	0.50	1.9	Not Detected	Not Detected	
Ethyl Benzene	0.50	2.2	Not Detected	Not Detected	
m,p-Xylene	0.50	2.2	Not Detected	Not Detected	
o-Xylene	0.50	2.2	Not Detected	Not Detected	
Container Type: NA - Not Appli	cable				
Surrogates		%Recovery	*	Method Limits	
1.2-Dighloroethane-da		109	n n Alas	70.130	
Toluene-d8		98		70-130	
4-Bromofluorobenzene		94		70-130	

SAMPLE NAME: LCS

ID#: 0108550-06A

File Name:	r082718	grafia de la compansión de la compansión de la compansión de la compansión de la compansión de la compansión d La compansión de la compansión de la compansión de la compansión de la compansión de la compansión de la compa		Date of Collection: NA	
Dil. Factor:	1.00		Date of Analysis:	8/27/01	
Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	. · · · · · · · · · · · · · · · · · · ·	%Recovery	
Benzene	0.50	1.6		78	
Toluene	0.50	. 1.9		84	
Ethyl Benzene	0.50	2.2		90	
m,p-Xylene	0.50	2.2		95	
o-Xylene	0.50	2.2		110	
Container Type: NA - Not Applic	able				
Surrogates		%Recovery	<u> </u>	Method Limits	
i,2-Dichloroethane-d4		105	. No. of the last	<i>7</i> 0-130	
Toluene-d8		102		70-130	
4-Bromofluorobenzene		99		70-130	



Sample Transportation N e 180 BLUE RAVINE RO. SUITE B Relinquishing signature on this document indicates that sample is being shipped in compliance FOLSOM, CA 95630-4, with all applicable local, State, Federal, national, and international laws, regulations and (916) 985-1000 FAX: (916) 985-1020 ordinances of any kind. Air Toxics Limited assumes no liability with respect to the collection, handling or shipping of these samples. Relinquishing signature also indicates agreement to hold harmless, defend, and indemnify Air Toxics Limited against any claim, demand, or action of any kind, related to the collection, handling, or shipping of samples. D.O.T. Hotline (800) 467-4922

Page ___ of _

WORK ORDER #: 0108571

Work Order Summary

CLIENT:

Ms. Kim Nichols

BILL TO:

Ms. Margaret Kelley

Burns & McDonnell

Burns & McDonnell 2601 W. 22nd St.

2601 W. 22nd St.

Oakbrook, IL 60523-1229

Oakbrook, IL 60523-1229

PHONE:

630-990-0300x226

P.O. # 27194-4.07

FAX:

10A

630-990-0301

PROJECT#

27194-4.07 Rogers Park Main

NA

DATE RECEIVED:

8/25/01

CONTACT:

TO-14

DeDe Dodge

DATE COMPLETED:

8/31/01

LCS

RECEIPT VAC/PRES. TEST FRACTION# NAME TO-14 9.5 "Hg 01A RPM-N-SUM-08-23-01 TO-14 9.5 "Hg 02A RPM-S-SUM-08-23-01 9.5 "Hg RPM-E-SUM-08-23-01 TO-14 03A 9.5 "Hg TO-14 RPM-W-SUM-08-23-01 04A TO-14 11.5 "Hg 05A RPM-N-SUM-08-24-01 11.5 "Hg RPM-S-SUM-08-24-01 TO-14 06A TO-14 11.5 "Hg 07A RPM-E-SUM-08-24-01 11.5 "Hg TO-14 07AA RPM-E-SUM-08-24-01 Duplicate 11.5 "Hg TO-14 08A RPM-W-SUM-08-24-01 NA Lab Blank TO-14 09A

CERTIFIED BY:

Servica S. Fruma

08/31/01

Laboratory Director

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Certification numbers: CA ELAP - 1149, NY ELAP - 11291, UT ELAP - E-217, AZ ELAP - AZ0567, LA - AI 30763

180 BLUE RAVINE ROAD, SUITE B FOLSOM, CA - 95630 (916) 985-1000 . (800) 985-5955 . FAX (916) 985-1020

LABORATORY NARRATIVE TO-14

Burns & McDonnell Workorder# 0108571

Eight 6 Liter Summa Canister samples were received on August 25, 2001. The laboratory performed analysis via EPA Method TO-14 using GC/MS in the full scan mode. The method involves concentrating up to 0.5 liters of air. The concentrated aliquot is then flash vaporized and swept through a water management system to remove water vapor. Following dehumidification, the sample passes directly into the GC/MS for analysis. See the data sheets for the reporting limits for each compound.

During the five point calibration, two low-level standards are used. The low-level standard for TO-14 compounds is spiked at 0.5 ppbv and represents the reporting limit for these compounds. The low-level standard for the non-TO-14 compounds is spiked at 2.0 ppbv and represents the reporting limit for these compounds. The TO-14 compounds are present in both standards but are excluded from reporting in the 2.0 ppbv standard since a lower level is already included in the curve.

Method modifications taken to run these samples include:

Requirement	TO-14	ATL Modifications
Internal standard retention times.	Not specified.	Within 0.50 minutes of most recent daily CCV internal standards
Internal standard recoveries.	Not specified.	Within 40% of the daily CCV internal standard area for blanks and samples.
Initial calibration criteria.	Not specified.	RSD of 30% or less for standard compounds, 40% or less for non-standard and polar compounds
Continuing calibration verification criteria	Not specified.	70 - 130% for at least 90% of standard compounds, 60 - 140% for at least 80% of non-standard and polar compounds
Response factor for quantitation.	Average response factor (ICAL).	Average response factor (ICAL).

Receiving Notes

There were no receiving discrepancies.

Analytical Notes

There were no analytical discrepancies.

Definition of Data Qualifying Flags

Seven qualifiers may have been used on the data analysis sheets and indicates as follows:

- B Compound present in laboratory blank greater than reporting limit(background subtraction not performed).
 - J Estimated value.
 - E Exceeds instrument calibration range.
 - S Saturated peak.
 - Q Exceeds quality control limits.
 - U Compound analyzed for but not detected above the reporting limit.
 - N The identification is based on presumptive evidence.

SAMPLE NAME: RPM-N-SUM-08-23-01

ID#: 0108571-01A

File Name:	q082918 		Date of Collection: 8/23/01. Date of Analysis: 8/29/01.	
Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	Amount (ppbv)	Amount (uG/m3)
Benzene	0.98	3.2	Not Detected	Not Detected
Toluene	0.98	3.8	Not Detected	Not Detected
Ethyl Benzene	0.98	4.3	Not Detected	Not Detected
•	0.98	4.3	Not Detected	Not Detected
m,p-Xylene o-Xylene	0.98	4.3	Not Detected	Not Detected
Container Type: 6 Liter Summa	a Canister			Method
Surrogates		%Recovery		Limits
1,2-Dichloroethane-d4		104		70-130
Toluene-d8		96		70-130
4-Bromofluorobenzene		87		70-130

SAMPLE NAME: RPM-S-SUM-08-23-01

ID#: 0108571-02A

File Names Dil. Factor	q082919 1.96		Date of Collection: 8/23/01 Date of Analysis: 8/29/01		
Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	Amount (ppbv)	Amount (uG/m3)	
Benzene	0.98	3.2	Not Detected	Not Detected	
Toluene	0.98	3.8	2.3	8.7	
Ethyl Benzene	0.98	4.3	Not Detected	Not Detected	
m,p-Xylene	0.98	4.3	Not Detected	Not Detected	
o-Xylene	0.98	4.3	Not Detected	Not Detected	
Container Type: 6 Liter Summa	a Canister			8 8 - A11	
Surrogates		%Recovery		Method Limits	
1,2-Dichloroethane-d4		100		70-130	
Toluene-d8		95		70-130	
4-Bromofluorobenzene		90		70-130	

SAMPLE NAME: RPM-E-SUM-08-23-01

ID#: 0108571-03A

File Name; Dil. Factor:	q082920 1,96		Date of Collection: 8/23/01 Date of Analysis: 8/30/01	
Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	Amount (ppbv)	Amount (uG/m3)
Benzene	0.98	3.2	Not Detected	Not Detected
Toluene	0.98	3.8	3.3	13
Ethyl Benzene	0.98	4.3	3.2	14
m,p-Xylene	0,98	4.3	11	50
o-Xylene	0.98	4.3	6.0	27
Container Type: 6 Liter Summa	Canister			Method
Surrogates		%Recovery		Limits
1,2-Dichloroethane-d4		103		70-130
Toluene-d8		94		70-130
4-Bromofluorobenzene		86		70-130

SAMPLE NAME: RPM-W-SUM-08-23-01

ID#: 0108571-04A

File Name: Dil. Factor:	q082921 1.96		Date of Collect Date of Analy	ction: 8/23/01 sis: 8/30/01
Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	Amount (ppbv)	Amount (uG/m3)
Benzene	0.98	3.2	Not Detected	Not Detected
Toluene	0.98	3.8	1.9	7.2
Ethyl Benzene	0.98	4.3	Not Detected	Not Detected
m,p-Xylene	0.98	4.3	Not Detected	Not Detected
o-Xylene	0.98	4.3	Not Detected	Not Detected
Container Type: 6 Liter Summ	a Canister			
<u> </u>	•			Method
Surrogates		%Recovery		Limits
1,2-Dichloroethane-d4	-	100		70-130
Toluene-d8		95		70-130
4-Bromofluorobenzene		89		70-130

SAMPLE NAME: RPM-N-SUM-08-24-01

ID#: 0108571-05A

File Name: Bil. Factor:	q082922 2.17		Date of Collect Date of Analy	
Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	Amount (ppbv)	Amount (uG/m3)
Benzene	1.1	3.5	Not Detected	Not Detected
Toluene	1.1	4.2	2.8	⁻ 11
Ethyl Benzene	1.1	4.8	2.7	12
m,p-Xylene	1.1	4.8	10	46
o-Xylene	1.1	4.8	5.8	25
Container Type: 6 Liter Summa Surrogates	Canister	%Recovery		Method Limits
1,2-Dichloroethane-d4		100		70-130
		97		70-130
Toluene-d8 4-Bromofluorobenzene		90		70-130

SAMPLE NAME: RPM-S-SUM-08-24-01

ID#: 0108571-06A

EPA METHOD TO-14 GC/MS FULL SCAN

File Name:	q082923		Date of Collec	
Dil. Factor:	(2.17) according	(A) 14	Date of Analy	sis: 8/30/01
Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	Amount (ppbv)	Amount (uG/m3)
Benzene	1.1	3.5	Not Detected	Not Detected
Toluene	1.1	4.2	6.1	23
Ethyl Benzene	1.1	4.8	Not Detected	Not Detected
m,p-Xylene	1.1	4.8	Not Detected	Not Detected
o-Xylene	1.1	4.8	Not Detected	Not Detected
Container Type: 6 Liter Summa	a Canister			
				Method
Surrogates		%Recovery		Limits
1,2-Dichloroethane-d4		101		70-130
Toluene-d8		96		70-130

4-Bromofluorobenzene

88

70-130

SAMPLE NAME: RPM-E-SUM-08-24-01

ID#: 0108571-07A

File Name: Dil, Factor:	q082924 2.17		Date of Collect Date of Analy	tion: 8/24/01 sis: 8/30/01
Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	Amount (ppbv)	Amount (uG/m3)
Benzene	1.1	3.5	Not Detected	Not Detected
Toluene	1.1	4.2	2.6	10
Ethyl Benzene	1.1	4.8	2.2	9.7
m,p-Xylene	1.1	4.8	8.2	36
o-Xylene	1.1	4.8	4.4	19
Container Type: 6 Liter Summa	Canister			
Surrogates		%Recovery		Method Limits
1,2-Dichloroethane-d4		102		70-130
Toluene-d8		94		70-130
4-Bromofluorobenzene		87		70-130

SAMPLE NAME: RPM-E-SUM-08-24-01 Duplicate

ID#: 0108571-07AA

EPA METHOD TO-14 GC/MS FULL SCAN

Date of Collection: 8/24/01

Dil. Factory	2.17		Date of Analy	515: 8/30/01
Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	Amount (ppbv)	Amount (uG/m3)
Benzene	1.1	3.5	Not Detected	Not Detected
Toluene	1.1	4.2	2.6	10
Ethyl Benzene	1.1	4.8	2.2	9.8
m,p-Xylene	1.1	4.8	8.3	36
o-Xylene	1.1	4.8	4.2	18

Container Type: 6 Liter Summa Canister

File Name:

•		Method
Surrogates	%Recovery	Limits
1,2-Dichloroethane-d4	102	70-130
Toluene-d8	93	70-130
4-Bromofluorobenzene	89	70-130

SAMPLE NAME: RPM-W-SUM-08-24-01

ID#: 0108571-08A

EPA METHOD TO-14 GC/MS FULL SCAN

File Name: Dil. Factor:	q082926 2.17		Date of Collect Date of Analy	stion: 8/24/01 sis: 8/30/01
Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	Amount (ppbv)	Amount (uG/m3)
Benzene	1.1	3.5	Not Detected	Not Detected
Toluene	1.1	4.2	Not Detected	Not Detected
Ethyl Benzene	1.1	4.8	Not Detected	Not Detected
m,p-Xylene	1.1	4.8	Not Detected	Not Detected
o-Xylene	1.1	4.8	Not Detected	Not Detected

Container Type: 6 Liter Summa Canister

		Method
Surrogates	%Recovery	Limits
1,2-Dichloroethane-d4	101	70-130
Toluene-d8	91	70-130
4-Bromofluorobenzene	89	70-130

SAMPLE NAME: Lab Blank

ID#: 0108571-09A

File Name: Dil. Factor:	q082911 \ 1.00		Date of Collect Date of Analy	
Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	Amount (ppbv)	Amount (uG/m3)
Benzene	0.50	1.6	Not Detected	Not Detected
Toluene	0.50	1.9	Not Detected	Not Detected
Ethyl Benzene	0.50	2.2	Not Detected	Not Detected
m,p-Xylene	0.50	2.2	Not Detected	Not Detected
o-Xylene	0.50	2.2	Not Detected	Not Detected
Container Type: NA - Not Appli	cable			88.35
Surrogates		%Recovery		Method Limits
1,2-Dichloroethane-d4		100		70-130
Toluene-d8		94		70-130
4-Bromofluorobenzene		84		70-130

SAMPLE NAME: LCS

ID#: 0108571-10A

EPA METHOD TO-14 GC/MS FULL SCAN

Dil Factor:	1.00	tan di pikan pengua sa 1915 tanggan pengua	Date of Analysis: 8/29/01
Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	%Recovery
Benzene	0.50	1.6	76
Toluene	0.50	1.9	79
Ethyl Benzene	0.50	2.2	87
m,p-Xylene	0.50	2.2	90
o-Xylene	0.50	2.2	. 106

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	100	70-130
Toluene-d8	97	70-130
4-Bromofluorobenzene	98	70-130

LIR TOXICS LTD. AN ENVIRONMENTAL ANALYTICAL LABORATORY

Sample Transportation No.

with all applicable local, State, Federal, national, and international laws, regulations and (916) 985-1000 FAX: (916) 985-1020

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CHAIN-OF-CUSTODY RECORD harmless, defend, and indemnify Air Toxics Limited against any claim, demand, or action of any kind, related to the collection, handling, or shipping of samples. D.O.T. Hotline (800) 467-4922 Relinquishing signature on this document indicates that sample is being shipped in compliance FOLSOM, CA 95630-4719 with all applicable local, State, Federal, national, and international laws, regulations and (916) 985-1000 FAX: (916) 985-1020 ordinances of any kind. Air Toxics Limited assumes no liability with respect to the collection, handling or shipping of these samples. Relinquishing signature also indicates agreement to hold

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WORK ORDER #: 0108627

Work Order Summary

CLIENT:

Ms. Kim Nichols

BILL TO:

Ms. Margaret Kelley

Burns & McDonnell

Burns & McDonnell

2601 W. 22nd St.

2601 W. 22nd St.

Oakbrook, IL 60523-1229

Oakbrook, IL 60523-1229

PHONE:

630-990-0300x226

P.O. #

Burns & McDonnell

FAX:

630-990-0301

PROJECT#

27194-4.07 Rogers Park Main

DATE RECEIVED:

8/29/01

CONTACT:

DeDe Dodge

DATE COMPLETED:

9/5/01

			RECEIPT
FRACTION#	NAME	<u>TEST</u>	VAC/PRES.
01A	RPM-N-SUM-08-27-01	TO-14	10.0 "Hg
02A	RPM-S-SUM-08-27-01	TO-14	10.0 "Hg
03A	RPM-E-SUM-08-27-01	TO-14	10.0 "Hg
04A	RPM-W-SUM-08-27-01	TO-14	10.0 "Hg
04AA	RPM-W-SUM-08-27-01 Duplicate	TO-14	10.0 "Hg
√ 05A	Lab Blank	TO-14	NA
05B	Lab Blank	TO-14	NA
06A	LCS	TO-14	NA ·
06B	LCS	TO-14	NA

CERTIFIED BY:

09/05/01

Laboratory Director

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LABORATORY NARRATIVE TO-14

Burns & McDonnell Workorder# 0108627

Four 6 Liter Silonite Canister samples were received on August 29, 2001. The laboratory performed analysis via EPA Method TO-14 using GC/MS in the full scan mode. The method involves concentrating up to 0.5 liters of air. The concentrated aliquot is then flash vaporized and swept through a water management system to remove water vapor. Following dehumidification, the sample passes directly into the GC/MS for analysis. See the data sheets for the reporting limits for each compound.

During the five point calibration, two low-level standards are used. The low-level standard for TO-14 compounds is spiked at 0.5 ppbv and represents the reporting limit for these compounds. The low-level standard for the non-TO-14 compounds is spiked at 2.0 ppbv and represents the reporting limit for these compounds. The TO-14 compounds are present in both standards but are excluded from reporting in the 2.0 ppbv standard since a lower level is already included in the curve.

Method modifications taken to run these samples include:

Requirement	TO-14	ATL Modifications
Internal standard retention times.	Not specified.	Within 0.50 minutes of most recent daily CCV internal standards
Internal standard recoveries.	Not specified.	Within 40% of the daily CCV internal standard area for blanks and samples.
Initial calibration criteria.	Not specified.	RSD of 30% or less for standard compounds, 40% or less for non-standard and polar compounds
Continuing calibration verification criteria	Not specified.	70 - 130% for at least 90% of standard compounds, 60 - 140% for at least 80% of non-standard and polar compounds
Response factor for quantitation.	Average response factor (ICAL).	Average response factor (ICAL).

Receiving Notes

There were no receiving discrepancies.

Analytical Notes

There were no analytical discrepancies.

Definition of Data Qualifying Flags

Seven qualifiers may have been used on the data analysis sheets and indicates as follows:

- B Compound present in laboratory blank greater than reporting limit(background subtraction not performed).
 - J Estimated value.
 - E Exceeds instrument calibration range.
 - S Saturated peak.
 - Q Exceeds quality control limits.
 - U Compound analyzed for but not detected above the reporting limit.
 - N The identification is based on presumptive evidence.

SAMPLE NAME: RPM-N-SUM-08-27-01

ID#: 0108627-01A

EPA METHOD TO-14 GC/MS FULL SCAN

File Name: Dif. Factor:	c090411 2.01		Date of Analysis: 9/4/01	
Compound	Rpt, Limit (ppbv)	Rpt. Limit (uG/m3)	Amount (ppbv)	Amount (uG/m3)
Benzene	1.0	3.3	Not Detected	Not Detected
Toluene	1.0	3.8	2.0	7.6
Ethyl Benzene	1.0	4.4	Not Detected	Not Detected
m,p-Xylene	1.0	4.4	Not Detected	Not Detected
o-Xylene	1.0	4.4	Not Detected	Not Detected

Container Type: c ziter cite and camera		Method		
Surrogates	%Recovery	Limits		
1,2-Dichloroethane-d4	91	70-130		
Toluene-d8	108	70-130		
4-Bromofluorobenzene	104	70-130		

SAMPLE NAME: RPM-S-SUM-08-27-01

ID#: 0108627-02A

EPA METHOD TO-14 GC/MS FULL SCAN

File Name: Dil, Factor:	c090412 2,01			Date of Collection: 8/27/01 Date of Analysis: 9/4/01	
Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	Amount (ppbv)	Amount (uG/m3)	
Benzene	1.0	3.3	Not Detected	Not Detected	
Toluene	1.0	3.8	2.3	8.7	
Ethyl Benzene	1.0	4.4	Not Detected	Not Detected	
m,p-Xylene	1.0	4.4	3.6	16	
o-Xylene	1.0	4.4	2.6	11	

Container Type: 6 Liter Silonite Canister

		Method	
Surrogates	%Recovery	Limits	
1,2-Dichloroethane-d4	91	70-130	
Toluene-d8	104	70-130	
4-Bromofluorobenzene	103	70-130	

J:ESTIMATED VALUE CM

SAMPLE NAME: RPM-E-SUM-08-27-01

ID#: 0108627-03A

EPA METHOD TO-14 GC/MS FULL SCAN

File Name: Dil. Factor:	r090416 2.01			Date of Collection: 8/27/01 Date of Analysis: 9/4/01	
Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	Amount (ppbv)	Amount (uG/m3)	
Benzene	1.0	3.3	Not Detected	Not Detected	
Toluene	1.0	3.8	2.1	7.9	
Ethyl Benzene	1.0	4.4	Not Detected	Not Detected	
m,p-Xylene	1.0	4,4	Not Detected	Not Detected	
o-Xylene	1.0	4.4	Not Detected	Not Detected	

		Method	
Surrogates	%Recovery	Limits	
1,2-Dichloroethane-d4	122	70-130	
Toluene-d8	101	70-130	
4-Bromofluorobenzene	98	70-130	

SAMPLE NAME: RPM-W-SUM-08-27-01

ID#: 0108627-04A

EPA METHOD TO-14 GC/MS FULL SCAN

Dil. Factor: 2.01			Date of Analysis: 9/4/01		
Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	Amount (ppbv)	Amount (uG/m3)	
Benzene	1.0	3.3	Not Detected	Not Detected	
Toluene	. 1.0	3.8	2.0	7.8	
Ethyl Benzene	1.0	4.4	Not Detected	Not Detected	
m,p-Xylene	1.0	4.4	Not Detected	Not Detected	
o-Xylene	1.0	4.4	Not Detected	Not Detected	

		Meniod	
Surrogates	%Recovery	Limits	
1,2-Dichloroethane-d4	125	70-130	
Toluene-d8	98	70-130	
4-Bromofluorobenzene	98	70-130	

SAMPLE NAME: RPM-W-SUM-08-27-01 Duplicate

ID#: 0108627-04AA

EPA METHOD TO-14 GC/MS FULL SCAN

File Name: Dil. Factor:	r090418 2.01		Date of Collect Date of Analy	
Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	Amount (ppbv)	Amount (uG/m3)
Benzene	1.0	3.3	Not Detected	Not Detected
Toluene	1.0	3.8	2.0	7.9
Ethyl Benzene	1.0	4.4	Not Detected	Not Detected
m,p-Xylene	1.0	4.4	Not Detected	Not Detected
o-Xvlene	1.0	4.4	Not Detected	Not Detected

Container Type, o Liter offering Carnotes		Method
Surrogates	%Recovery	Limits
1,2-Dichloroethane-d4	122	70-130
Toluene-d8	101	70-130
4-Bromofluorobenzene	92	70-130

SAMPLE NAME: Lab Blank

ID#: 0108627-05A

File Name:	c090407	teritorio de la con-	Date of Collect	ction: NA
Dil. Factor:	1.00		Date of Analy	sis: 9/4/01
Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	Amount (ppbv)	Amount (uG/m3)
Benzene	0.50	1.6	Not Detected	Not Detected
Toluene	0.50	1.9	Not Detected	Not Detected
Ethyl Benzene	0.50	2.2	Not Detected	Not Detected
m,p-Xylene	0.50	2.2	Not Detected	Not Detected
o-Xylene	0.50	2.2	Not Detected	Not Detected
Container Type: NA - Not Appli	cable			
Surrogates		%Recovery		Method Limits
1,2-Dichloroethane-d4		95		70-130
Toluene-d8		104	-	70-130
4-Bromofluorobenzene		105		70-130

SAMPLE NAME: Lab Blank

ID#: 0108627-05B

EPA METHOD TO-14 GC/MS FULL SCAN

Date of Collection: NA

Dil. Factor	1.00		Date of Analy	sis: 9/4/01
Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	Amount (ppbv)	Amount (uG/m3)
Benzene	0.50	1.6	Not Detected	Not Detected
Toluene	0.50	1.9	Not Detected	Not Detected
Ethyl Benzene	0.50	2.2	Not Detected	Not Detected
m,p-Xylene	0.50	2.2	Not Detected	Not Detected
o-Xvlene	0.50	2,2	Not Detected	Not Detected

Container Type: NA - Not Applicable

7,		Method
Surrogates	%Recovery	Limits
1,2-Dichloroethane-d4	106	70-130
Toluene-d8	101	70-130
4-Bromofluorobenzene	90	70-130

SAMPLE NAME: LCS

D#: 0108627-06A

EPA METHOD TO-14 GC/MS FULL SCAN

	llection: NA
Dil. Factor: 1.00 Date of An	alysis: 9/4/01

Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	%Recovery
Benzene	0.50	1.6	94
Toluene	0.50	1.9	105
Ethyl Benzene	0.50	2.2	111
m,p-Xylene	0.50	2.2	123
o-Xylene	0.50	2.2	137 Q

Q = Exceeds Quality Control limits.

Container Type: NA - Not Applicable

Consideration	9/ Pagayany	Metnod Limits
Surrogates	%Recovery	Limits
1,2-Dichloroethane-d4	97	70-130
Toluene-d8	107	70-130
4-Bromofluorobenzene	100	70-130

SAMPLE NAME: LCS

ID#: 0108627-06B

EPA METHOD TO-14 GC/MS FULL SCAN

File Name: r0904 Dil. Factor: 1.	Date of Collection: NA Date of Analysis: 9/4/01

_	Rpt. Limit	Rpt. Limit	9/ Danassams
Compound	(ppbv)	(uG/m3)	%Recovery
Benzene	0.50	1.6	79
Toluene	0.50	1.9	85
Ethyl Benzene	0.50	2.2	89
m,p-Xylene	0.50	2.2	92
o-Xylene	0.50	2.2	104

Container Type: NA - Not Applicable

	0(5)	WEITOG
Surrogates	%Recovery	Limits
1,2-Dichloroethane-d4	104 ⁻	70-130
Toluene-d8	102	70-130
4-Bromofluorobenzene	99	70-130



CHAIN-OF-CUSTODY RECORD

ordinances of any kind. Air Toxics, Limited assumes no liability with respect to the collection, handling or shipping of these samples. Relinquishing signature also indicates agreement to hold Sample Transportation N e 180 BLUE RAVINE RO; Relinquishing signature on this document indicates that sample is being shipped in compliance FOLSOM, CA 95630-47 kind, related to the collection, handling, or shipping of samples. D.O.T. Hotline (800) 467-4922 harmless, defend, and indemnify Air Toxics Limited against any claim, demand, or action of any with all applicable local, State, Federal, national, and international laws, regulations and (916) 985-1000 FAX: (916) 985-1020

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Re

WORK ORDER #: 0108666

Work Order Summary

CLIENT:

Ms. Kim Nichols

BILL TO:

Ms. Margaret Kelley

Burns & McDonnell 2601 W. 22nd St.

Burns & McDonnell

2601 W. 22nd St.

Oakbrook, IL 60523-1229

Oakbrook, IL 60523-1229

PHONE:

630-990-0300x226

P.O. #

Burns & McDonnell

FAX:

630-990-0301

PROJECT#

27194-4.07 Rogers Park Main

DATE RECEIVED:

8/30/01

CONTACT:

DeDe Dodge

DATE COMPLETED:

9/6/01

RECEIPT VAC./PRES. TEST FRACTION# NAME 10.0 "Hg RPM-S-SUM-08-28-01 TO-14 01A RPM-W-SUM-08-28-01 TO-14 10.0 "Hg 02A TO-14 NA 03A Lab Blank TO-14 NA LCS 04A

CERTIFIED BY:

inda d. Fruma

DATE:

09/06/01

Laboratory Director

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Certfication numbers: CA ELAP - 1149, NY ELAP - 11291, UT ELAP - E-217, AZ ELAP - AZ0567, LA - AI 30763

180 BLUE RAVINE ROAD, SUITE B FOLSOM, CA - 95630 (916) 985-1000 . (800) 985-5955 . FAX (916) 985-1020

LABORATORY NARRATIVE TO-14

Burns & McDonnell Workorder# 0108666

Two 6 Liter Silonite Canister samples were received on August 30, 2001. The laboratory performed analysis via EPA Method TO-14 using GC/MS in the full scan mode. The method involves concentrating up to 0.5 liters of air. The concentrated aliquot is then flash vaporized and swept through a water management system to remove water vapor. Following dehumidification, the sample passes directly into the GC/MS for analysis. See the data sheets for the reporting limits for each compound.

During the five point calibration, two low-level standards are used. The low-level standard for TO-14 compounds is spiked at 0.5 ppbv and represents the reporting limit for these compounds. The low-level standard for the non-TO-14 compounds is spiked at 2.0 ppbv and represents the reporting limit for these compounds. The TO-14 compounds are present in both standards but are excluded from reporting in the 2.0 ppbv standard since a lower level is already included in the curve.

Method modifications taken to run these samples include:

Requirement	TO-14	ATL Modifications				
Internal standard retention times.	Not specified.	Within 0.50 minutes of most recent daily CCV internal standards				
Internal standard recoveries.	s. Not specified. Within 40% of the daily CCV internal standard blanks and samples.					
Initial calibration criteria.	Not specified.	RSD of 30% or less for standard compounds, 40% or less for non-standard and polar compounds				
Continuing calibration verification criteria						
Response factor for quantitation.	Average response factor (ICAL).	Average response factor (ICAL).				

Receiving Notes

There were no receiving discrepancies.

Analytical Notes

There were no analytical discrepancies.

Definition of Data Qualifying Flags

Seven qualifiers may have been used on the data analysis sheets and indicates as follows:

- B Compound present in laboratory blank greater than reporting limit(background subtraction not performed).
 - J Estimated value.
 - E Exceeds instrument calibration range.
 - S Saturated peak.
 - Q Exceeds quality control limits.
 - U Compound analyzed for but not detected above the reporting limit.
 - N The identification is based on presumptive evidence.

SAMPLE NAME: RPM-S-SUM-08-28-01

ID#: 0108666-01A

File Name: Dill Factor	. 1090515 2.01		Date of Collection: 8/28/01 Date of Analysis: 9/5/01			
Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	Amount (ppbv)	Amount (uG/m3)		
Benzene	1.0	3.3	Not Detected	Not Detected		
Toluene	1.0	3.8	Not Detected	Not Detected		
Ethyl Benzene	1.0	4.4	Not Detected	Not Detected		
m,p-Xylene	1.0	4.4	Not Detected	Not Detected		
o-Xylene	1.0	4.4	Not Detected	Not Detected		
Container Type: 6 Liter Silonite	Canister					
		/		Method		
Surrogates		%Recovery		Limits		
1,2-Dichloroethane-d4		111		70-130		
Toluene-d8		108		70-130		
4-Bromofluorobenzene		103		70-130		

SAMPLE NAME: RPM-W-SUM-08-28-01

ID#: 0108666-02A

File Name:		ection: 8/28/01				
Dil. Factor:	2:01		Date of Analy	Date of Analysis: 9/5/01		
Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	Amount (ppbv)	Amount (uG/m3)		
Benzene	. 1.0	3.3	Not Detected	Not Detected		
Toluene	1.0	3.8	Not Detected	Not Detected		
Ethyl Benzene	1.0	4.4	Not Detected	Not Detected		
m,p-Xylene	1.0	4.4	Not Detected	Not Detected		
o-Xylene	1.0	4.4	Not Detected	Not Detected		
Container Type: 6 Liter Silonit	e Canister			Method		
Surrogates		%Recovery		Limits		
1,2-Dichloroethane-d4		116		70-130		
Toluene-d8		104		70-130		
4-Bromofluorobenzene	-	97		70-130		

SAMPLE NAME: Lab Blank

ID#: 0108666-03A

File Name: Dil. Factor:	1090506 1.00		Date of Gollection: NA Date of Analysis: 9/5/01			
Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	Amount (ppbv)	Amount (uG/m3)		
Benzene	0.50	1.6	Not Detected	Not Detected		
Toluene	0.50	1.9	Not Detected	Not Detected		
Ethyl Benzene	0.50	2.2	Not Detected	Not Detected		
m,p-Xylene	0.50	2.2	Not Detected	Not Detected		
o-Xylene	0.50	2.2	Not Detected	Not Detected		
Container Type: NA - Not Appli	cable					
Surrogates		%Recovery		Method Limits		
1,2-Dichloroethane-d4		114		70-130		
Toluene-d8		105		70-130		
4-Bromofluorobenzene		95		70-130		

SAMPLE NAME: LCS

ID#: 0108666-04A

EPA METHOD TO-14 GC/MS FULL SCAN

Date of Collection: NA

DII. Factor:	1.00	e Carlon Carlo	Date of Analysis: 9/5/01
Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	%Recovery
Benzene	0.50	1.6	. 89
Toluene	0.50	1.9	89
Ethyl Benzene	0.50	2.2	90
m,p-Xylene	0.50	2.2	102
o-Xylene	0.50	2.2	114

Container Type: NA - Not Applicable

Surrogates	%Recovery	ivetriod Limits
1,2-Dichloroethane-d4	110	70-130
Toluene-d8	100	70-130
4-Bromofluorobenzene	98	70-130

CHAIN-OF-CUSTODY RECORD AN ENVIRONMENTAL ANALYTICAL LABORATORY AIR TOXICS LTD.

Sample Transportation Notice

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0109002 WORK ORDER #:

Work Order Summary

CLIENT:

Ms. Kim Nichols

2601 W. 22nd St.

Burns & McDonnell

Oakbrook, IL 60523-1229

BILL TO:

Ms. Margaret Kelley

Burns & McDonnell

2601 W. 22nd St.

Oakbrook, IL 60523-1229

PHONE:

630-990-0300x226

P.O. #

Burns & McDonnell

FAX:

630-990-0301

PROJECT#

27194-4.07 Rogers Park Main

RECEIPT

DATE RECEIVED:

9/4/01

CONTACT:

DeDe Dodge

DATE COMPLETED:

9/11/01

VAC./PRES. **TEST** NAME FRACTION# 10.0 "Hg TO-14 RPM-N-SUM-08-29-01 01A 10.5 "Hg TO-14 RPM-W-SUM-08-29-01 02A NA TO-14 Lab Blank 03A NA TO-14 LCS 04A

CERTIFIED BY:

inda d. Fruma

09/11/01 DATE:

Laboratory Director

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LABORATORY NARRATIVE TO-14

Burns & McDonnell Workorder# 0109002

Two 6 Liter Silonite Canister samples were received on August 31, 2001. The laboratory performed analysis via EPA Method TO-14 using GC/MS in the full scan mode. The method involves concentrating up to 0.5 liters of air. The concentrated aliquot is then flash vaporized and swept through a water management system to remove water vapor. Following dehumidification, the sample passes directly into the GC/MS for analysis. See the data sheets for the reporting limits for each compound.

During the five point calibration, two low-level standards are used. The low-level standard for TO-14 compounds is spiked at 0.5 ppbv and represents the reporting limit for these compounds. The low-level standard for the non-TO-14 compounds is spiked at 2.0 ppbv and represents the reporting limit for these compounds. The TO-14 compounds are present in both standards but are excluded from reporting in the 2.0 ppbv standard since a lower level is already included in the curve.

Method modifications taken to run these samples include:

Requirement	TO-14	ATL Modifications
Internal standard retention times.	Not specified.	Within 0.50 minutes of most recent daily CCV internal standards
Internal standard recoveries.	Not specified.	Within 40% of the daily CCV internal standard area for blanks and samples.
Initial calibration criteria.	Not specified.	RSD of 30% or less for standard compounds, 40% or less for non-standard and polar compounds
Continuing calibration verification criteria	Not specified.	70 - 130% for at least 90% of standard compounds, 60 - 140% for at least 80% of non-standard and polar compounds
Response factor for quantitation.	Average response factor (ICAL).	Average response factor (ICAL).

Receiving Notes

There were no receiving discrepancies.

Analytical Notes

There were no analytical discrepancies.

Definition of Data Qualifying Flags

Seven qualifiers may have been used on the data analysis sheets and indicates as follows:

- B Compound present in laboratory blank greater than reporting limit(background subtraction not performed).
 - J Estimated value.
 - E Exceeds instrument calibration range.
 - S Saturated peak.
 - Q Exceeds quality control limits.
 - U Compound analyzed for but not detected above the reporting limit.
 - N The identification is based on presumptive evidence.

SAMPLE NAME: RPM-N-SUM-08-29-01

ID#: 0109002-01A

EPA METHOD TO-14 GC/MS FULL SCAN

Date of Collection: 8/29/01

4.8

Not Detected

1.1

Not Detected

Dil. Factor:	2.01		Date of Analy	sis: 9/9/01
Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	Amount (ppbv)	Amount (uG/m3)
Benzene	1.0	3.3	Not Detected	Not Detected
Toluene	1.0	3.8	5.5	. 21
Ethyl Benzene	1.0	4.4	1.6	6.9

4.4

4.4

1.0

1.0

Container Type: 6 Liter Silonite Canister

File Name:

m,p-Xylene

o-Xylene

		Method
Surrogates	%Recovery	Limits
1,2-Dichloroethane-d4	112	70-130
Toluene-d8	100	70-130
4-Bromofluorobenzene	88	70-130

SAMPLE NAME: RPM-W-SUM-08-29-01

ID#: 0109002-02A

r090910 2.06	Date of Collection: 8/ Date of Analysis: 9/9/				
Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	Amount (ppbv)	Amount (uG/m3)		
1.0	3.3	1.3	4.1		
1.0	3.9	2.1	8.1		
1.0	4.5	Not Detected	Not Detected		
1.0	4.5	Not Detected	Not Detected		
1.0	4.5	Not Detected	Not Detected		
Canister	%Recovery		Method Limits		
	115		70-130		
	96		70-130		
	84		70-130		
	2.06 Rpt. Limit (ppby) 1.0 1.0 1.0 1.0 1.0 1.0	Rpt. Limit (ppby) (uG/m3) 1.0 3.3 1.0 3.9 1.0 4.5 1.0 4.5 1.0 4.5 1.0 4.5 1.10 1.5 1.0 1.5 1.0 1.5 1.0 1.5 1.0 1.0 1.5 1.0 1.5 1.0 1.5 1.0 1.5 1.0 1.5	2.06		

SAMPLE NAME: Lab Blank

ID#: 0109002-03A

EPA METHOD TO-14 GC/MS FULL SCAN

r090904 1.00		Date of Collect Date of Analy	
Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	Amount (ppbv)	Amount (uG/m3)
0.50	1.6	Not Detected	Not Detected
0.50	1.9	Not Detected	Not Detected
0.50	2.2	Not Detected	Not Detected
0.50	2.2	Not Detected	Not Detected
0.50	2.2	Not Detected	Not Detected
e			
÷	%Recovery		Method Limits
	114		70-130
•	101		70-130
	Rpt. Limit (ppbv) 0.50 0.50 0.50 0.50	### Rpt. Limit (ppbv) (uG/m3) 0.50	Rpt. Limit

87

70-130

4-Bromofluorobenzene

SAMPLE NAME: LCS

ID#: 0109002-04A

Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	%Recovery
Benzene	0.50	1.6	103
Toluene	0.50	1.9	112
Ethyl Benzene	0.50	2.2	110
m,p-Xylene	0.50	2.2	117
o-Xylene	0.50	2.2	128

Surrogates	%Recovery	Limits
1,2-Dichloroethane-d4	106	70-130
Toluene-d8	101	70-130
4-Bromofluorobenzene	98	70-130



CHAIN-OF-CUSTODY RECORD

Sample Transportation Notice

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Turn Around Time: ৷ Normal	Project info: P.O. # BARENS & W. Chamer.		Dominie LL	MARCHETT MACK



WORK ORDER #: 0109010

Work Order Summary

CLIENT:

Ms. Kim Nichols Burns & McDonnell

2601 W. 22nd St.

BILL TO:

Ms. Margaret Kelley

Burns & McDonnell

2601 W. 22nd St.

Oakbrook, IL 60523-1229

PHONE:

630-990-0300x226

Oakbrook, IL 60523-1229

P.O. #

Burns & McDonnell

FAX:

630-990-0301

PROJECT#

27194-4.07 Rogers Park Main

DATE RECEIVED:

9/1/01

CONTACT:

DeDe Dodge

DATE COMPLETED:

9/11/01

RECEIPT VAC./PRES. TEST NAME FRACTION# TO-14 10.5 "Hg 01A RPM-N-SUM-08-30-01 TO-14 12.5 "Hg RPM-S-SUM-08-30-01 02A 12.5 "Hg TO-14 RPM-E-SUM-08-30-01 03A 12.5 "Hg TO-14 04A RPM-W-SUM-08-30-01 TO-14 NA Lab Blank 05A NA TO-14 LCS 06A

CERTIFIED BY:

Sinda d. Fruman

O9/11/01

Laboratory Director

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LABORATORY NARRATIVE TO-14

Burns & McDonnell Workorder# 0109010

Four 6 Liter Summa Canister samples were received on September 01, 2001. The laboratory performed analysis via EPA Method TO-14 using GC/MS in the full scan mode. The method involves concentrating up to 0.5 liters of air. The concentrated aliquot is then flash vaporized and swept through a water management system to remove water vapor. Following dehumidification, the sample passes directly into the GC/MS for analysis. See the data sheets for the reporting limits for each compound.

During the five point calibration, two low-level standards are used. The low-level standard for TO-14 compounds is spiked at 0.5 ppbv and represents the reporting limit for these compounds. The low-level standard for the non-TO-14 compounds is spiked at 2.0 ppbv and represents the reporting limit for these compounds. The TO-14 compounds are present in both standards but are excluded from reporting in the 2.0 ppbv standard since a lower level is already included in the curve.

Method modifications taken to run these samples include:

Requirement	TO-14	ATL Modifications
Internal standard retention times.	Not specified.	Within 0.50 minutes of most recent daily CCV internal standards
Internal standard recoveries.	Not specified.	Within 40% of the daily CCV internal standard area for blanks and samples.
Initial calibration criteria.	Not specified.	RSD of 30% or less for standard compounds, 40% or less for non-standard and polar compounds
Continuing calibration verification criteria	Not specified.	70 - 130% for at least 90% of standard compounds, 60 - 140% for at least 80% of non-standard and polar compounds
Response factor for quantitation.	Average response factor (ICAL).	Average response factor (ICAL).

Receiving Notes

There were no receiving discrepancies.

Analytical Notes

There were no analytical discrepancies.

Definition of Data Qualifying Flags

Seven qualifiers may have been used on the data analysis sheets and indicates as follows:

- B Compound present in laboratory blank greater than reporting limit(background subtraction not performed).
 - J Estimated value.
 - E Exceeds instrument calibration range.
 - S Saturated peak.
 - Q Exceeds quality control limits.
 - U Compound analyzed for but not detected above the reporting limit.
 - N The identification is based on presumptive evidence.

SAMPLE NAME: RPM-N-SUM-08-30-01

ID#: 0109010-01A

EPA METHOD TO-14 GC/MS FULL SCAN

r090812

1.0

Date of Collection: 8/30/01

Not Detected

Not Detected

Dil. Factor:	2.06		Date of Analysis: 9/8/01	
Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	Amount (ppbv)	Amount (uG/m3)
Benzene	1.0	3.3	Not Detected	Not Detected
Toluene	1.0	3.9	1.7	6.6
Ethyl Benzene	1.0	4.5	Not Detected	Not Detected
m.p-Xvlene	1.0	4.5	Not Detected	Not Detected

Container Type: 6 Liter Summa Canister

o-Xylene

• •		Method	
Surrogates	%Recovery	Limits	
1,2-Dichloroethane-d4	114	70-130	
Toluene-d8	101	70-130	
4-Bromofluorobenzene	89	70-130	

SAMPLE NAME: RPM-S-SUM-08-30-01

ID#: 0109010-02A

EPA METHOD TO-14 GC/MS FULL SCAN

r090813

1.2

1.2

Date of Collection: 8/30/01

7.9

Not Detected

1.8

Not Detected

Dil. Factor:	2.30		Date of Analy	sis: 9/8/01
Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	Amount (ppbv)	Amount (uG/m3)
Benzene	1.2	3.7	Not Detected	Not Detected
Toluene	1.2	4.4	1.9	7.4
Ethyl Benzene	1.2	5.1	Not Detected	Not Detected

5.1

5.1

Container Type: 6 Liter Summa Canister

File Name:

m,p-Xylene

o-Xylene

Surrogates	%Recovery	Limits
1,2-Dichloroethane-d4	109	70-130
Toluene-d8	99	70-130
4-Bromofluorobenzene	88	70-130

SAMPLE NAME: RPM-E-SUM-08-30-01

ID#: 0109010-03A

EPA METHOD TO-14 GC/MS FULL SCAN

r090814

Date of Collection: 8/30/01

Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	Amount (ppbv)	Amount (uG/m3)
Benzene	1.2	3.7	Not Detected	Not Detected
Toluene '	1.2	4.4	1.8	7.0
Ethyl Benzene	1.2	5.1	Not Detected	Not Detected
m,p-Xylene	1.2	5.1	Not Detected	Not Detected
o-Xylene	1.2	5.1	Not Detected	Not Detected

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	112	70-130
Toluene-d8	100	70-130
4-Bromofluorobenzene	87	70-130

SAMPLE NAME: RPM-W-SUM-08-30-01

ID#: 0109010-04A

EPA METHOD TO-14 GC/MS FULL SCAN

Date of Collection: 8/30/01

r090815

Dil. Factor:	2:30	2.30		Date of Analysis: 9/8/01	
Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	Amount (ppbv)	Amount (uG/m3)	
Benzene	1.2	3.7	Not Detected	Not Detected	
Toluene	1.2	4.4	1.6	6.2	
Ethyl Benzene	1.2	5.1	Not Detected	Not Detected	
m,p-Xylene	1.2	5.1	Not Detected	Not Detected	
o-Xylene	1.2	5.1	Not Detected	Not Detected	

Container Type: 6 Liter Summa Canister

21		Method	
Surrogates	%Recovery	Limits	
1,2-Dichloroethane-d4	110	70-130	
Toluene-d8	103	70-130	
4-Bromofluorobenzene	87	70-130	



SAMPLE NAME: Lab Blank

ID#: 0109010-05A

File Name: Dil. Factor:	r090806 1.00		Date of Collection Date of Analy	
Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	Amount (ppbv)	Amount (uG/m3)
Benzene	0.50	1.6	Not Detected	Not Detected
Toluene	0.50	1.9	Not Detected	Not Detected
Ethyl Benzene	0.50	2.2	Not Detected	Not Detected
m,p-Xylene	0.50	2.2	Not Detected	Not Detected
o-Xylene	0.50	2.2	Not Detected	Not Detected
Container Type: NA - Not Appl	icable			
Surrogates		%Recovery		Method Limits
1,2-Dichloroethane-d4		109		70-130
Toluene-d8		103		70-130
4-Bromofluorobenzene		88		70-130

SAMPLE NAME: LCS

ID#: 0109010-06A

EPA METHOD TO-14 GC/MS FULL SCAN

Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	%Recovery
Benzene	0.50	1.6	105
Toluene	0.50	1.9	110
Ethyl Benzene	0.50	2.2	109
m,p-Xylene	0.50	2.2	109
o-Xylene	0.50	2.2	122

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	102	70-130
Toluene-d8	104	70-130
4-Bromofluorobenzene	98	70-130

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CHAIN-OF-CUSTODY RECORD

Sample Transportation Notice

Relinquishing signature on this document indicates that sample is being shipped in compliance FOLSOM, CA 95630-4719 with all applicable local, State, Federal, national, and international laws, regulations and (916) 985-1000 FAX: (916) 985-1020 ordinances of any kind. Air Toxics Limited assumes no liability with respect to the collection, handling or shipping of these samples. Relinquishing signature also indicates agreement to hold harmless, defend, and indemnify Air Toxics Limited against any claim, demand, or action of any kind, related to the collection, handling, or shipping of samples. D.O.T. Hotline (800) 467-4922

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Turn Around Time:	Project info:		THE STATE OF THE S	Contact Person WAYSARET KE

WORK ORDER #: 0109009

Work Order Summary

CLIENT:

Ms. Kim Nichols

BILL TO:

Ms. Margaret Kelley

Burns & McDonnell

Oakbrook, IL 60523-1229

Burns & McDonnell

2601 W. 22nd St.

2601 W. 22nd St.

Oakbrook, IL 60523-1229

PHONE:

630-990-0300x226

P.O.#

27194-4.07

FAX:

630-990-0301

PROJECT#

27194-4.07 Rogers Park Main

DATE RECEIVED:

9/1/01

CONTACT:

DeDe Dodge

DATE COMPLETED:

9/11/01

RECEIPT VAC./PRES. FRACTION# NAME **TEST** 12.0 "Hg TO-14 RPM-S-SUM-08-31-01 01A TO-14 NA Lab Blank 02A NA 03A LCS TO-14

CERTIFIED BY:

09/11/01 DATE:

Laboratory Director

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Certfication numbers: CA ELAP - 1149, NY ELAP - 11291, UT ELAP - E-217, AZ ELAP - AZ0567, LA - AI 30763

180 BLUE RAVINE ROAD, SUITE B FOLSOM, CA - 95630 (916) 985-1000 . (800) 985-5955 . FAX (916) 985-1020

LABORATORY NARRATIVE TO-14

Burns & McDonnell Workorder# 0109009

One 6 Liter Summa Canister sample was received on September 01, 2001. The laboratory performed analysis via EPA Method TO-14 using GC/MS in the full scan mode. The method involves concentrating up to 0.5 liters of air. The concentrated aliquot is then flash vaporized and swept through a water management system to remove water vapor. Following dehumidification, the sample passes directly into the GC/MS for analysis. See the data sheets for the reporting limits for each compound.

During the five point calibration, two low-level standards are used. The low-level standard for TO-14 compounds is spiked at 0.5 ppbv and represents the reporting limit for these compounds. The low-level standard for the non-TO-14 compounds is spiked at 2.0 ppbv and represents the reporting limit for these compounds. The TO-14 compounds are present in both standards but are excluded from reporting in the 2.0 ppbv standard since a lower level is already included in the curve.

Method modifications taken to run these samples include:

Requirement	TO-14	ATL Modifications
Internal standard retention times.	Not specified.	Within 0.50 minutes of most recent daily CCV internal standards
Internal standard recoveries.	Not specified.	Within 40% of the daily CCV internal standard area for blanks and samples.
Initial calibration criteria.	Not specified.	RSD of 30% or less for standard compounds, 40% or less for non-standard and polar compounds
Continuing calibration verification criteria	Not specified.	70 - 130% for at least 90% of standard compounds, 60 - 140% for at least 80% of non-standard and polar compounds
Response factor for quantitation.	Average response factor (ICAL).	Average response factor (ICAL).

Receiving Notes

There were no receiving discrepancies.

Analytical Notes

There were no analytical discrepancies.

Definition of Data Qualifying Flags

Seven qualifiers may have been used on the data analysis sheets and indicates as follows:

- B Compound present in laboratory blank greater than reporting limit(background subtraction not performed).
 - J Estimated value.
 - E Exceeds instrument calibration range.
 - S Saturated peak.
 - Q Exceeds quality control limits.
 - U Compound analyzed for but not detected above the reporting limit.
 - N The identification is based on presumptive evidence.

SAMPLE NAME: RPM-S-SUM-08-31-01

ID#: 0109009-01A

File Name: Dil. Factor:	q091106 2.23			Date of Collection: 8/31/01 Date of Analysis: 9/11/01	
Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	Amount (ppbv)	Amount (uG/m3)	
Benzene	1.1	3.6	Not Detected	Not Detected	
Toluene	1.1	4.3	Not Detected	Not Detected	
Ethyl Benzene	1.1	4.9	Not Detected	Not Detected	
m,p-Xylene	1.1	4.9	Not Detected	Not Detected	
o-Xylene	-1.1	4.9	Not Detected	Not Detected	
Container Type: 6 Liter Summa	Canister			-	
Surrogates		%Recovery		Method Limits	
1,2-Dichloroethane-d4		98		70-130	
Toluene-d8		93		70-130	
4-Bromofluorobenzene		87		70-130	

SAMPLE NAME: Lab Blank

ID#: 0109009-02A

EPA METHOD TO-14 GC/MS FULL SCAN

q091104

Date of Collection: NA

Dil. Factor:	actor: 1,00			sis: 9/11/01
Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	Amount (ppbv)	Amount (uG/m3)
Benzene	0.50	1.6	Not Detected	Not Detected
Toluene	0.50	1.9	Not Detected	Not Detected
Ethyl Benzene	0.50	2.2	Not Detected	Not Detected
m,p-Xylene	0.50	2.2	Not Detected	Not Detected
o-Xylene	0.50	2.2	Not Detected	Not Detected

Container Type: NA - Not Applicable

File Name:

		Wethod
Surrogates	%Recovery	Limits
1,2-Dichloroethane-d4	97	70-130
Toluene-d8	93	70-130
4-Bromofluorobenzene	81	70-130

SAMPLE NAME: LCS

ID#: 0109009-03A

EPA METHOD TO-14 GC/MS FULL SCAN

q091103

0.50

Date of Collection: NA

104

Dil. Factor:	1.00		Date of Analysis: 9/11/01
Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	%Recovery
Benzene	0.50	1.6	89
Toluene	0.50	1.9	83
Ethyl Benzene	0.50	2.2	88
m,p-Xylene	0.50	2.2	91

Container Type: NA - Not Applicable

File Name:

m,p-Xylene

o-Xylene

		Menon
Surrogates	%Recovery	Limits
1,2-Dichloroethane-d4	101	70-130
Toluene-d8	92	70-130
4-Bromofluorobenzene	91	70-130

2.2

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	delineagen de la constanta de

WORK ORDER #: 0109056

Work Order Summary

CLIENT:

Ms. Kim Nichols

BILL TO:

Ms. Margaret Kelley

Burns & McDonnell

Burns & McDonnell

2601 W. 22nd St.

2601 W. 22nd St.

Oakbrook, IL 60523-1229

Oakbrook, IL 60523-1229

PHONE:

630-990-0300x226

P.O. #

Burns & McDonnell

FAX:

630-990-0301

PROJECT#

27194-4.07 Rogers Park Main

RECEIPT

DATE RECEIVED:

9/6/01

CONTACT:

DeDe Dodge

DATE COMPLETED:

9/13/01

TEST VAC/PRES. FRACTION# NAME 9.0 "Hg TO-14 RPM-S-SUM-09-04-01 01A 9.0 "Hg RPM-S-SUM-09-04-01 Duplicate TO-14 01AA TO-14 NA Lab Blank 02A TO-14 NA LCS 03A

CERTIFIED BY:

09/20/01

Laboratory Director

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LABORATORY NARRATIVE TO-14

Burns & McDonnell Workorder# 0109056

One 6 Liter Summa Canister sample was received on September 06, 2001. The laboratory performed analysis via EPA Method TO-14 using GC/MS in the full scan mode. The method involves concentrating up to 0.5 liters of air. The concentrated aliquot is then flash vaporized and swept through a water management system to remove water vapor. Following dehumidification, the sample passes directly into the GC/MS for analysis. See the data sheets for the reporting limits for each compound.

During the five point calibration, two low-level standards are used. The low-level standard for TO-14 compounds is spiked at 0.5 ppbv and represents the reporting limit for these compounds. The low-level standard for the non-TO-14 compounds is spiked at 2.0 ppbv and represents the reporting limit for these compounds. The TO-14 compounds are present in both standards but are excluded from reporting in the 2.0 ppbv standard since a lower level is already included in the curve.

Method modifications taken to run these samples include:

Requirement	TO-14	ATL Modifications
Internal standard retention times.	Not specified.	Within 0.50 minutes of most recent daily CCV internal standards
Internal standard recoveries.	Not specified.	Within 40% of the daily CCV internal standard area for blanks and samples.
Initial calibration criteria.	Not specified.	RSD of 30% or less for standard compounds, 40% or less for non-standard and polar compounds
Continuing calibration verification criteria	Not specified.	70 - 130% for at least 90% of standard compounds, 60 - 140% for at least 80% of non-standard and polar compounds
Response factor for quantitation.	Average response factor (ICAL).	Average response factor (ICAL).

Receiving Notes

The canister valve for sample RPM-S-SUM-09-04-01 was found to be faulty during a leak check prior to pressurization. This may have resulted in ultra high purity Nitrogen being introduced into the sample before an initial vacuum/pressure reading could be obtained. The reported analyte concentrations are considered to be estimated.

Analytical Notes

There were no analytical discrepancies.

Definition of Data Qualifying Flags

Seven qualifiers may have been used on the data analysis sheets and indicates as follows:

- B Compound present in laboratory blank greater than reporting limit(background subtraction not performed).
 - J Estimated value.
 - E Exceeds instrument calibration range.
 - S Saturated peak.

- Q Exceeds quality control limits.
- U Compound analyzed for but not detected above the reporting limit.
- N The identification is based on presumptive evidence.

SAMPLE NAME: RPM-S-SUM-09-04-01

ID#: 0109056-01A

File Name:	r091206		Date of Collec	tion: 9/4/01
Dil. Factor:	1.91		Date of Analy	sist 9/12/01
Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	Amount (ppbv)	Amount (uG/m3)
Benzene	0.96	3.1	Not Detected	Not Detected
Toluene	0.96	3.6	Not Detected	Not Detected
Ethyl Benzene	0.96	4.2	Not Detected	Not Detected
m,p-Xylene	0.96	4.2	Not Detected	Not Detected
o-Xylene	0.96	4.2	Not Detected	Not Detected
Container Type: 6 Liter Summa	Canister			
				Method
Surrogates		%Recovery		Limits
1,2-Dichloroethane-d4		116		70-130
Toluene-d8		101		70-130
4-Bromofluorobenzene		92		70-130

SAMPLE NAME: RPM-S-SUM-09-04-01 Duplicate

ID#: 0109056-01AA

File Name:	r091207		Date of Collection: 9/4/01		
Dil. Factor:	1.91		Date of Analy	sis: 9/12/01	
Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	Amount (ppbv)	Amount (uG/m3)	
Benzene	0.96	3.1	Not Detected	Not Detected	
Toluene	0.96	3.6	Not Detected	Not Detected	
Ethyl Benzene	0.96	4.2	Not Detected	Not Detected	
m,p-Xylene	0.96	4.2	Not Detected	Not Detected	
o-Xylene	0.96	4.2	Not Detected	Not Detected	
Container Type: 6 Liter Summa	Canister			Method	
Surrogates		%Recovery		Limits	
1,2-Dichloroethane-d4		117		70-130	
Toluene-d8		99		70-130	
4-Bromofluorobenzene		91		70-130	

SAMPLE NAME: Lab Blank

ID#: 0109056-02A

File Name: Dil, Factor:	r091204 1.00		Date of Collect Date of Analy	
Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	Amount (ppbv)	Amount (uG/m3)
Benzene	0.50	1.6	Not Detected	Not Detected
Toluene	0.50	1.9	Not Detected	Not Detected
Ethyl Benzene	0.50	2.2	Not Detected	Not Detected
m,p-Xylene	0.50	2.2	Not Detected	Not Detected
o-Xylene	0.50	2.2	Not Detected	Not Detected
Container Type: NA - Not Appli	cable	•		
Surrogates		%Recovery		Method Limits
1,2-Dichloroethane-d4		110		70-130
Toluene-d8		103		70-130
4-Bromofluorobenzene		90		70-130

SAMPLE NAME: LCS

ID#: 0109056-03A

EPA METHOD TO-14 GC/MS FULL SCAN

File Name: Dil, Factor:	r091203		Date of Collection: NA Date of Analysis: 9/12/01
Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	%Recovery
Benzene	0.50	1.6	98
Toluene	0.50	1.9	105
Ethyl Benzene	0.50	2.2	111
m,p-Xylene	0.50	2.2	118
o-Xylene	0.50	2.2	126
Container Type: NA - Not Appli	cable		
,			Method
Surrogates		Limits	
1.2-Dichloroethane-d4		100	70-130

Toluene-d8

4-Bromofluorobenzene

100

100

70-130

70-130

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WORK ORDER #: 0109081

Work Order Summary

CLIENT:

Ms. Kim Nichols

Ms. Margaret Kelley

Burns & McDonnell

Burns & McDonnell 2601 W. 22nd St.

2601 W. 22nd St.

Oakbrook, IL 60523-1229

Oakbrook, IL 60523-1229

PHONE:

630-990-0300x226

P.O. #

BILL TO:

Burns & McDonnell

FAX:

630-990-0301

PROJECT#

27194-4.07 Rogers Park Main

DATE RECEIVED:

9/7/01

CONTACT:

DeDe Dodge

DATE COMPLETED:

9/14/01

RECEIPT VAC/PRES. TEST FRACTION# NAME 10.0 "Hg TO-14 01A RPM-N-Sum-09-05-01 10.0 "Hg 02A RPM-S-Sum-09-05-01 TO-14 10.0 "Hg RPM-E-Sum-09-05-01 TO-14 03A 9.5 "Hg TO-14 RPM-W-Sum-09-05-01 04A TO-14 NA 05A Lab Blank NA LCS TO-14 06A

CERTIFIED BY:

09/14/01 DATE:

Laboratory Director

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Certfication numbers: CA ELAP - 1149, NY ELAP - 11291, UT ELAP - E-217, AZ ELAP - AZ0567, LA - AI 30763

180 BLUE RAVINE ROAD, SUITE B FOLSOM, CA - 95630 (916) 985-1000 . (800) 985-5955 . FAX (916) 985-1020

LABORATORY NARRATIVE TO-14

Burns & McDonnell Workorder# 0109081

Four 6 Liter Summa Canister samples were received on September 07, 2001. The laboratory performed analysis via EPA Method TO-14 using GC/MS in the full scan mode. The method involves concentrating up to 0.5 liters of air. The concentrated aliquot is then flash vaporized and swept through a water management system to remove water vapor. Following dehumidification, the sample passes directly into the GC/MS for analysis. See the data sheets for the reporting limits for each compound.

During the five point calibration, two low-level standards are used. The low-level standard for TO-14 compounds is spiked at 0.5 ppbv and represents the reporting limit for these compounds. The low-level standard for the non-TO-14 compounds is spiked at 2.0 ppbv and represents the reporting limit for these compounds. The TO-14 compounds are present in both standards but are excluded from reporting in the 2.0 ppbv standard since a lower level is already included in the curve.

Method modifications taken to run these samples include:

Requirement	TO-14	ATL Modifications
Internal standard retention times.	Not specified.	Within 0.50 minutes of most recent daily CCV internal standards
Internal standard recoveries.	Not specified.	Within 40% of the daily CCV internal standard area for blanks and samples.
Initial calibration criteria.	Not specified.	RSD of 30% or less for standard compounds, 40% or less for non-standard and polar compounds
Continuing calibration verification criteria	Not specified.	70 - 130% for at least 90% of standard compounds, 60 - 140% for at least 80% of non-standard and polar compounds
Response factor for quantitation.	Average response factor (ICAL).	Average response factor (ICAL).

Receiving Notes

There were no receiving discrepancies.

Analytical Notes

There were no analytical discrepancies.

Definition of Data Qualifying Flags

Seven qualifiers may have been used on the data analysis sheets and indicates as follows:

- B Compound present in laboratory blank greater than reporting limit(background subtraction not performed).
 - J Estimated value.
 - E Exceeds instrument calibration range.
 - S Saturated peak.
 - Q Exceeds quality control limits.
 - U Compound analyzed for but not detected above the reporting limit.
 - N The identification is based on presumptive evidence.

SAMPLE NAME: RPM-N-Sum-09-05-01

ID#: 0109081-01A

File Name: Dil, Factor:	r091119 2:01		Date of Collect Date of Analy	
Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	Amount (ppbv)	Amount (uG/m3)
Benzene	1.0	3.3	Not Detected	Not Detected
Toluene	1.0	3.8	Not Detected	Not Detected
Ethyl Benzene	1.0	4.4	Not Detected	Not Detected
m,p-Xylene	1.0	4.4	Not Detected	Not Detected
o-Xylene	1.0	4.4	Not Detected	Not Detected
Container Type: 6 Liter Summa	Canister			Method
Surrogates		%Recovery		Limits
1,2-Dichloroethane-d4		108		70-130
7 Toluene-d8	•	100		70-130
4-Bromofluorobenzene		84		70-130

SAMPLE NAME: RPM-S-Sum-09-05-01

ID#: 0109081-02A

EPA METHOD TO-14 GC/MS FULL SCAN

Date of Collection: 9/5/01

Dil. Factor	The an appropriation are necessary as a		Date of Analy	Date of Analysis, 9/1 but		
Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	Amount (ppbv)	Amount (uG/m3)		
Benzene	1.0	3.3	Not Detected,	Not Detected		
Toluene	1.0	3.8	Not Detected	Not Detected		
Ethyl Benzene	1.0	4.4	Not Detected	Not Detected		
m,p-Xylene	1.0	4.4	Not Detected	Not Detected		
n-Xvlene	. 1.0	4.4	Not Detected	Not Detected		

Container Type: 6 Liter Summa Canister

File Name:

••		Method	
Surrogates	%Recovery	Limits	
1,2-Dichloroethane-d4	105	70-130	
Toluene-d8	100	70-130	
4-Bromofluorobenzene	89	70-130	

SAMPLE NAME: RPM-E-Sum-09-05-01

ID#: 0109081-03A

r091118 2.01		Date of Collection: 9/5/01 Date of Analysis: 9/11/01		
Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	Amount (ppbv)	Amount (uG/m3)	
1.0	3.3	Not Detected	Not Detected	
1.0	3.8	1.0	4.0	
1.0	4.4	Not Detected	Not Detected	
1.0	4.4	Not Detected	Not Detected	
1.0	4.4	Not Detected	Not Detected	
Canister				
	%Recovery		Method Limits	
	102		70-130	
	102		70-130	
	87		70-130	
	2.01 Rpt. Limit (ppbv) 1.0 1.0 1.0 1.0 1.0	2.01 Rpt. Limit (ppbv) (uG/m3) 1.0 3.3 1.0 3.8 1.0 4.4 1.0 4.4 1.0 4.4 Canister %Recovery 102 102	2.01	

SAMPLE NAME: RPM-W-Sum-09-05-01

ID#: 0109081-04A

r091116		Date of Collection: 9/5/01		
1,96		Date of Analy	sis: 9/11/01	
Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	Amount (ppbv)	Amount (uG/m3)	
0.98	3.2	Not Detected	Not Detected	
0.98	3.8	Not Detected	Not Detected	
0.98	4.3	Not Detected	Not Detected	
0.98	4.3	Not Detected	Not Detected	
0.98	4.3	Not Detected	Not Detected	
anister			Method	
	%Recovery		Limits	
	102		70-130	
	101		70-130	
	93		70-130	
	1,96 Rpt. Limit (ppbv) 0.98 0.98 0.98 0.98 0.98	1.96 Rpt. Limit (ppbv) (uG/m3) 0.98 3.2 0.98 3.8 0.98 4.3 0.98 4.3 0.98 4.3 anister %Recovery 102 101	1,96	

SAMPLE NAME: Lab Blank

ID#: 0109081-05A

r091111 1.00		Date of Collect Date of Analy	
Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	Amount (ppbv)	Amount (uG/m3)
0.50	1.6	Not Detected	Not Detected
0.50	1.9	Not Detected	Not Detected
0.50	2.2	Not Detected	Not Detected
0.50	2.2	Not Detected	Not Detected
0.50	2.2	Not Detected	Not Detected
cable			
	%Recovery		Method Limits
	115		70-130
	102		70-130
	92		70-130
	1.00 Rpt. Limit (ppbv) 0.50 0.50 0.50 0.50	1.00 Rpt. Limit (ppbv) (uG/m3) 0.50 1.6 0.50 1.9 0.50 2.2 0.50 2.2 0.50 2.2 0.50 2.2 0.50 2.2 1.50 2.2 1.50 2.2 1.50 2.2	1.00 Pate of Analy Rpt. Limit (ppbv) (uG/m3) (ppbv) 0.50 1.6 Not Detected 0.50 1.9 Not Detected 0.50 2.2 Not Detected 0.50 2.2 Not Detected 0.50 2.2 Not Detected 0.50 2.2 Not Detected 0.50 2.2 Not Detected 0.50 2.1 Not Detected 0.50 1.5 Not Detected 0.50 1.5 Not Detected 0.50 1.5 Not Detected

SAMPLE NAME: LCS

ID#: 0109081-06A

EPA METHOD TO-14 GC/MS FULL SCAN

	Date of Collection: NA
	Date of Analysis: 9/11/01

Compound	Rpt. Limit (ppbv)	Rpt, Limit (uG/m3)	%Recovery
Benzene	0.50	1.6	100
Toluene	0.50	1.9	106
Ethyl Benzene	0.50	2.2	110
m,p-Xylene	0.50	2.2	110
o-Xylene	0.50	2.2	. 125

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	103	70-130
Toluene-d8	98	70-130
4-Bromofluorobenzene	97	70-130





CHAIN-OF-CUSTODY RECORD

Sample Transportation Notice

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Address		City One Token State	1 Zip 60573	Project # 27/94-4-07	☐ Rush		·
Phone	4	FAX 10/6-790-030		Project Name Mark Strick		Specify	y
Collected By: Signature	By: Signature	September 1					
Lab I.D.	Field Sample I.D.	Date & Time	Analys	Analyses Requested	Canister Initial	Canister Pressure / Vacuum	Vacuum
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Use			T because in	Yes No	None	0109087	081
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WORK ORDER #: 0109093

Work Order Summary

CLIENT:

Ms. Kim Nichols

BILL TO: Ms. Margaret Kelley

Burns & McDonnell

Burns & McDonnell

2601 W. 22nd St.

2601 W. 22nd St.

Oakbrook, IL 60523-1229

Oakbrook, IL 60523-1229

PHONE:

630-990-0300x226

P.O. # 27194-4.07

FAX:

630-990-0301

PROJECT#

27194-4.07 Rogers Park Main

DATE RECEIVED:

9/8/01

CONTACT:

DeDe Dodge

DATE COMPLETED:

9/17/01

RECEIPT VAC/PRES. NAME TEST FRACTION# TO-14 11.0 "Hg 01A RPM-N-SUM-09-06-01 11.0 "Hg TO-14 RPM-W-SUM-09-06-01 02A 12.0 "Hg RPM-N-SUM-09-07-01 TO-14 03A TO-14 12.0 "Hg RPM-N-SUM-09-07-01 Duplicate 03AA 12.0 "Hg TO-14 RPM-W-SUM-09-07-01 04A NA TO-14 05A Lab Blank NA TO-14 LCS 06A

CERTIFIED BY:

Sinda d. Fruman

DATE: <u>09/17/01</u>

Laboratory Director

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180 BLUE RAVINE ROAD, SUITE B FOLSOM, CA - 95630 (916) 985-1000 . (800) 985-5955 . FAX (916) 985-1020

LABORATORY NARRATIVE

TO-14

Burns & McDonnell Workorder# 0109093

Four 6 Liter Summa Canister samples were received on September 08, 2001. The laboratory performed analysis via EPA Method TO-14 using GC/MS in the full scan mode. The method involves concentrating up to 0.5 liters of air. The concentrated aliquot is then flash vaporized and swept through a water management system to remove water vapor. Following dehumidification, the sample passes directly into the GC/MS for analysis. See the data sheets for the reporting limits for each compound.

During the five point calibration, two low-level standards are used. The low-level standard for TO-14 compounds is spiked at 0.5 ppbv and represents the reporting limit for these compounds. The low-level standard for the non-TO-14 compounds is spiked at 2.0 ppbv and represents the reporting limit for these compounds. The TO-14 compounds are present in both standards but are excluded from reporting in the 2.0 ppbv standard since a lower level is already included in the curve.

Method modifications taken to run these samples include:

Requirement	TO-14	ATL Modifications
Internal standard retention times.	Not specified.	Within 0.50 minutes of most recent daily CCV internal standards
Internal standard recoveries.	Not specified.	Within 40% of the daily CCV internal standard area for blanks and samples.
Initial calibration criteria.	Not specified.	RSD of 30% or less for standard compounds, 40% or less for non-standard and polar compounds
Continuing calibration verification criteria	Not specified.	70 - 130% for at least 90% of standard compounds, 60 - 140% for at least 80% of non-standard and polar compounds
Response factor for quantitation.	Average response factor (ICAL).	Average response factor (ICAL).

Receiving Notes

There were no receiving discrepancies.

Analytical Notes

There were no analytical discrepancies.

Definition of Data Qualifying Flags

Seven qualifiers may have been used on the data analysis sheets and indicates as follows:

- B Compound present in laboratory blank greater than reporting limit(background subtraction not performed).
 - J Estimated value.
 - E Exceeds instrument calibration range.
 - S Saturated peak.
 - Q Exceeds quality control limits.
 - U Compound analyzed for but not detected above the reporting limit.
 - N The identification is based on presumptive evidence.

SAMPLE NAME: RPM-N-SUM-09-06-01

ID#: 0109093-01A

File Name:	1091216	peruna propertion Artes a respectivo de la	Date of Collect Date of Analy	
Dil. Factor:	2.12 Rpt. Limit	Rpt. Limit	Amount	Amount
Compound	(ppbv)	(uG/m3)	(ppbv)	(uG/m3)
Benzene	1.1	3.4	Not Detected	Not Detected
Toluene	1.1	4.0	2.4	9.2
Ethyl Benzene	1.1	4.7	Not Detected	Not Detected
m,p-Xylene	1.1	4.7	Not Detected	Not Detected
o-Xylene	1.1	4.7	Not Detected	Not Detected
Container Type: 6 Liter Summa (Canister			
Surrogates		%Recovery		Method Limits
1,2-Dichloroethane-d4		119		70-130
Toluene-d8		98		70-130
4-Bromofluorobenzene		95		70-130

SAMPLE NAME: RPM-W-SUM-09-06-01

ID#: 0109093-02A

File Name: Dit Factor:	1091217 2.12		Date of Collect Date of Analy	and the second second
Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	Amount (ppbv)	Amount (uG/m3)
Benzene	1.1	3.4	1.1	3.6
Toluene	1.1	4.0	2.8	11
Ethyl Benzene	1.1	4.7	Not Detected	Not Detected
m,p-Xylene	1.1	4.7	1.2	5.3
o-Xylene	1.1	4.7	Not Detected	Not Detected
Container Type: 6 Liter Summa Ca	nister			
Surrogates		%Recovery		Method Limits
1,2-Dichloroethane-d4		115		70-130
Toluene-d8		96		70-130
4-Bromofluorobenzene		92		70-130

SAMPLE NAME: RPM-N-SUM-09-07-01

ID#: 0109093-03A

EPA METHOD TO-14 GC/MS FULL SCAN

1091218

Date of Collection: 9/7/01

Dil. Factor:	2.23		Date of Analysis: 9/12/01			
Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	Amount (ppbv)	Amount (uG/m3)		
Benzene	1.1	3.6	Not Detected	Not Detected		
Toluene	1.1	4.3	Not Detected	Not Detected		
Ethyl Benzene	1.1	4.9	Not Detected	Not Detected		
m,p-Xylene	1.1	4.9	Not Detected	Not Detected		
o.Yulono	1.1	4.9	Not Detected	Not Detected		

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Limits
1,2-Dichloroethane-d4	128	70-130
Toluene-d8	96	70-130
4-Bromofluorobenzene	93	70-130

SAMPLE NAME: RPM-N-SUM-09-07-01 Duplicate

ID#: 0109093-03AA

EPA METHOD TO-14 GC/MS FULL SCAN

File Name: Dil. Factor:	1091219		Date of Collection: 9/7/01 Date of Analysis: 9/12/01			
Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	Amount (ppbv)	Amount (uG/m3)		
Benzene	1.1	3.6	Not Detected	Not Detected		
Toluene	1.1	4.3	Not Detected	Not Detected		
Ethyl Benzene	1.1	4.9	Not Detected	Not Detected		
m,p-Xylene	1.1	4.9	Not Detected	Not Detected		
o-Xylene	1,1	4.9	Not Detected	Not Detected		
Container Type: 6 Liter Summa	a Canister					
Surrogates		%Recovery		Method Limits		
1,2-Dichloroethane-d4		124				
Toluene-d8		95		70-130		

95 91

70-130

4-Bromofluorobenzene

SAMPLE NAME: RPM-W-SUM-09-07-01

ID#: 0109093-04A

File Name: Dil. Factor:			Date of Collection: 9/7/01. Date of Analysis: 9/13/01			
Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	Amount (ppbv)	Amount (uG/m3)		
Benzene	1.1	3.6	Not Detected	Not Detected		
Toluene	1.1	4.3	1.3	4.9		
Ethyl Benzene	1.1	4.9	Not Detected	Not Detected		
m,p-Xylene	1.1	4.9	Not Detected	Not Detected		
o-Xylene	1.1	4.9	Not Detected	Not Detected		
Container Type: 6 Liter Summa	Canister					
Surrogates		%Recovery		Method Limits		
1,2-Dichloroethane-d4		123		70-130		
Toluene-d8		95		70-130		
4-Bromofluorobenzene		93		70-130		

SAMPLE NAME: Lab Blank

ID#: 0109093-05A

EPA METHOD TO-14 GC/MS FULL SCAN

File Name: Dil. Factor:	1,00	Date of Analysis: 9/12/0				
Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	Amount (ppbv)	Amount (uG/m3)		
Benzene	0.50	1.6	Not Detected	Not Detected		
Toluene	0.50	1.9	Not Detected	Not Detected		
Ethyl Benzene	0.50	2.2	Not Detected	Not Detected		
m,p-Xylene	0.50	2.2	Not Detected	Not Detected		
o-Xylene	0.50	2.2	Not Detected	Not Detected		
Container Type: NA - Not A	pplicable					
	••			Method		
Surrogates		%Recovery		Limits		

115

95

98

70-130 70-130

70-130

1,2-Dichloroethane-d4

4-Bromofluorobenzene

Toluene-d8

SAMPLE NAME: LCS

ID#: 0109093-06A

EPA METHOD TO-14 GC/MS FULL SCAN

1091204

0.50

0.50

Date of Collection: NA

89

Dil. Factor:	1.00		Date of Analysis: 9/12/01
Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	%Recovery
Benzene	0.50	1.6	79
Toluene	0.50	1.9	78 .
Ethyl Benzene	0.50	2.2	76

2.2

2.2

Container Type: NA - Not Applicable

m,p-Xylene

o-Xylene

Surrogates	%Recovery	limits
1,2-Dichloroethane-d4	116	70-130
Toluene-d8	96	70-130
4-Bromofluorobenzene	97	70-130



CHAIN-OF-CUSTODY RECORD

Sample Transportation Suite B Suite B Sample Transportation Suite B Suite B Suite B Relinquishing signature on this document indicates that sample is being shipped in compliance FOLSOM, CA 95630-47-19 with all applicable local, State, Federal, national, and international laws, regulations and (916) 985-1000 FAX: (916) 985-1020 ordinances of any kind. Air Toxics Limited assumes no liability with respect to the collection, harmless, defend, and indemnify Air Toxics Limited against any claim, demand, or action of any kind, related to the collection, handling, or shipping of samples. D.O.T. Hotline (800) 467-4922 handling or shipping of these samples. Relinquishing signature also indicates agreement to hold

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CHAIN-OF-CUSTODY RECORD

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WORK ORDER #: 0109205

Work Order Summary

CLIENT:

Ms. Kim Nichols

Burns & McDonnell 2601 W. 22nd St.

Oakbrook, IL 60523-1229

BILL TO:

Ms. Margaret Kelley

Burns & McDonnell 2601 W. 22nd St.

Oakbrook, IL 60523-1229

PHONE:

630-990-0300x226

P.O. # 2

27194-4.07

FAX:

630-990-0301

PROJECT #

27194-4.07 Rogers Park Main

DATE RECEIVED:

9/17/01

CONTACT:

DeDe Dodge

DATE COMPLETED:

9/24/01

RECEIPT VAC./PRES. TEST FRACTION# **NAME** 9.5 "Hg RPM-N-SUM-09-10-01 TO-14 01A 9.5 "Hg TO-14 02A RPM-S-SUM-09-10-01 9.0 "Hg TO-14 RPM-E-SUM-09-10-01 03A 9.5 "Hg TO-14 04A RPM-W-SUM-09-10-01 TO-14 NA 05A Lab Blank TO-14 NA Lab Blank 05B NA TO-14 LCS. 06A NA TO-14 06B LCS

CERTIFIED BY:

Sinda d. Fruman

NATE: 09/24/01

Laboratory Director

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Certification numbers: CA ELAP - 1149, NY ELAP - 11291, UT ELAP - E-217, AZ ELAP - AZ0567, LA - AI 30763

180 BLUE RAVINE ROAD, SUITE B FOLSOM, CA - 95630 (916) 985-1000. (800) 985-5955. FAX (916) 985-1020

LABORATORY NARRATIVE TO-14

Burns & McDonnell Workorder# 0109205

Four 6 Liter Summa Canister samples were received on September 17, 2001. The laboratory performed analysis via EPA Method TO-14 using GC/MS in the full scan mode. The method involves concentrating up to 0.5 liters of air. The concentrated aliquot is then flash vaporized and swept through a water management system to remove water vapor. Following dehumidification, the sample passes directly into the GC/MS for analysis. See the data sheets for the reporting limits for each compound.

During the five point calibration, two low-level standards are used. The low-level standard for TO-14 compounds is spiked at 0.5 ppbv and represents the reporting limit for these compounds. The low-level standard for the non-TO-14 compounds is spiked at 2.0 ppbv and represents the reporting limit for these compounds. The TO-14 compounds are present in both standards but are excluded from reporting in the 2.0 ppbv standard since a lower level is already included in the curve.

Method modifications taken to run these samples include:

Requirement	TO-14	ATL Modifications
Internal standard retention times.	Not specified.	Within 0.50 minutes of most recent daily CCV internal standards
Internal standard recoveries.	Not specified.	Within 40% of the daily CCV internal standard area for blanks and samples.
Initial calibration criteria.	Not specified.	RSD of 30% or less for standard compounds, 40% or less for non-standard and polar compounds
Continuing calibration verification criteria	Not specified.	70 - 130% for at least 90% of standard compounds, 60 - 140% for at least 80% of non-standard and polar compounds
Response factor for quantitation.	Average response factor (ICAL).	Average response factor (ICAL).

Receiving Notes

There were no receiving discrepancies.

Analytical Notes

There were no analytical discrpancies.

Definition of Data Qualifying Flags

Seven qualifiers may have been used on the data analysis sheets and indicates as follows:

- B Compound present in laboratory blank greater than reporting limit(background subtraction not performed).
 - J Estimated value.
 - E Exceeds instrument calibration range.
 - S Saturated peak.
 - Q Exceeds quality control limits.
 - U Compound analyzed for but not detected above the reporting limit.
 - N The identification is based on presumptive evidence.

SAMPLE NAME: RPM-N-SUM-09-10-01

ID#: 0109205-01A

EPA METHOD TO-14 GC/MS FULL SCAN

Dil. Factor:	1.96		Date of Analy	sis: 9/17/01
Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	Amount (ppbv)	Amount (uG/m3)
Benzene	0.98	3.2	Not Detected	Not Detected
Toluene	0.98	3.8	1.4	5.4
Ethyl Benzene	0.98	4.3	Not Detected	Not Detected
m,p-Xylene	0.98	4.3	Not Detected	Not Detected
o-Xylene	0.98	4.3	Not Detected	Not Detected

Container Type: 6 Liter Summa Canister

	Method
%Recovery	Limits
123	70-130
103	70-130
96	70-130
	123 103

SAMPLE NAME: RPM-S-SUM-09-10-01

ID#: 0109205-02A

File Name: Dil. Factor:	r091720 1,96		Date of Collection: 9/10/01 Date of Analysis: 9/17/01	
Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	Amount (ppbv)	Amount (uG/m3)
Benzene	0.98	3.2	Not Detected	Not Detected
Toluene	0.98	3.8	1.1	4.1
Ethyl Benzene	0.98	4.3	Not Detected	Not Detected
m,p-Xylene	0.98	4.3	Not Detected	Not Detected
o-Xylene	0.98	4.3	Not Detected	Not Detected
Container Type: 6 Liter Summa	Canister			
Surrogates		%Recovery		Method Limits
1,2-Dichloroethane-d4		118		70-130
Toluene-d8		99		70-130
4-Bromofluorobenzene		97		70-130

SAMPLE NAME: RPM-E-SUM-09-10-01

ID#: 0109205-03A

File Name: Dil. Factor:	r091809 1.91			ection: 9/10/01 ysis: 9/18/01	
Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	Amount (ppbv)	Amount (uG/m3)	
Benzene	0.96	3.1	Not Detected	Not Detected	
Toluene	0.96	3.6	1.0	3.9	
Ethyl Benzene	0.96	4.2	Not Detected	Not Detected	
m,p-Xylene	0.96	4.2	Not Detected	Not Detected	
o-Xylene	0.96	4.2	Not Detected	Not Detected	
Container Type: 6 Liter Summa	a Canister				
Surrogates		%Recovery		Method Limits	
1,2-Dichloroethane-d4		115		70-130	
Toluene-d8		97		70-130	
4-Bromofluorobenzene		115		70-130	

SAMPLE NAME: RPM-W-SUM-09-10-01

ID#: 0109205-04A

File Name: Dil Factor:	r091810 1.96		Date of Collection: 9/10/01 Date of Analysis: 9/18/01		
Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	Amount (ppbv)	Amount (uG/m3)	
Benzene	0.98	3.2	Not Detected	Not Detected	
Toluene	0.98	3.8	1.2	4.6	
Ethyl Benzene	0.98	4.3	Not Detected	Not Detected	
m,p-Xylene	0.98	4.3	Not Detected	Not Detected	
o-Xylene	0.98	4.3	Not Detected	Not Detected	
Container Type: 6 Liter Summa	Canister				
Surrogates		%Recovery		Method Limits	
1,2-Dichloroethane-d4		122		70-130	
Toluene-d8		100		70-130	
4-Bromofluorobenzene		113		70-130	

SAMPLE NAME: Lab Blank

ID#: 0109205-05A

File Name: Dif. Factor:	r091705 1.00		Date of Collection: NA Date of Analysis: 9/17/01	
Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	Amount (ppbv)	Amount (uG/m3)
Benzene	0.50	1.6	Not Detected	Not Detected
Toluene	0.50	1.9	Not Detected	Not Detected
Ethyl Benzene	0.50	2.2	Not Detected	Not Detected
m,p-Xylene	0.50	2.2	Not Detected	Not Detected
o-Xylene	0.50	2.2	Not Detected	Not Detected
Container Type: NA - Not Appli	cable			
Surrogates		%Recovery		Method Limits
1,2-Dichloroethane-d4		114		70-130
Toluene-d8		99	÷	70-130
4-Bromofluorobenzene		92	4	70-130

SAMPLE NAME: Lab Blank

ID#: 0109205-05B

File Name: Dil. Factor:	r091808 1.00			tion: NA sis: 9/18/01
Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	Amount (ppbv)	Amount (uG/m3)
Benzene	0.50	1.6	Not Detected	Not Detected
Toluene	0.50	1.9	Not Detected	Not Detected
Ethyl Benzene	0.50	2.2	Not Detected	Not Detected
m,p-Xylene	0.50	2.2	Not Detected	Not Detected
o-Xylene	0.50	2.2	Not Detected	Not Detected
Container Type: NA - Not Appli	cable			
Surrogates		%Recovery		Method Limits
1,2-Dichloroethane-d4		115		70-130
Toluene-d8		98		70-130
4-Bromofluorobenzene		117		70-130

SAMPLE NAME: LCS

ID#: 0109205-06A

EPA METHOD TO-14 GC/MS FULL SCAN

File Name: r091703 Date of Collection: NA
Dij. Factor: 1.00 Date of Analysis: 9/17/01
Dil. Factor: 1.00 Date of Analysis: 9/17/01

Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	%Recovery
Benzene	0.50	1.6	95
Toluene	0.50	1.9	100
Ethyl Benzene	0.50	2.2	104
m,p-Xylene	0.50	2.2	112
o-Xylene	0.50	2.2	124

Container Type: NA - Not Applicable

		Method
Surrogates	%Recovery	Limits
1,2-Dichloroethane-d4	108	70-130
Toluene-d8	102	70-130
4-Bromofluorobenzene	98	70-130

SAMPLE NAME: LCS

ID#: 0109205-06B

File Name:	r091804		Date of Collection: NA
DII. Factor:	1.00		Date of Analysis: 9/18/01
Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	%Recovery
Benzene	0.50	1.6	98
Toluene	0.50	1.9	103
Ethyl Benzene	0.50	2.2	103
m,p-Xylene	0.50	2.2	115
o-Xylene	0.50	2.2	125
Container Type: NA - Not Applicab	le		
Surrogates	•	%Recovery	Method Limits
1,2-Dichloroethane-d4		112	70-130
Toluene-d8		103	70-130
4-Bromofluorobenzene		102	70-130



CHAIN-OF-CUSTODY RECORD

Sample Transportation Notice

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Project Info: Turn Around Time: Notate Zip Z	City State Zip Zip Project info: FAX
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WORK ORDER #: 0109163

Work Order Summary

CLIENT:

Ms. Kim Nichols

BILL TO:

Ms. Margaret Kelley

Burns & McDonnell

Burns & McDonnell

2601 W. 22nd St.

2601 W. 22nd St.

Oakbrook, IL 60523-1229

Oakbrook, IL 60523-1229

PHONE:

630-990-0300x226

P.O. #

Burns & McDonnell

FAX:

630-990-0301

PROJECT #

27194-4.07 Rogers Park Main

DATE RECEIVED:

9/14/01

CONTACT:

DeDe Dodge

DATE COMPLETED:

9/21/01

RECEIPT VAC/PRES. **FRACTION#** NAME **TEST** TO-14 9.5 "Hg RPM-N-SUM-09-11-01 01A 10.0 "Hg RPM-W-SUM-09-11-01 TO-14 02A NA 03A Lab Blank TO-14 Lab Blank TO-14 NA 03B NA LCS TO-14 04A NA TO-14 LCS 04B

CERTIFIED BY:

09/21/01

Laboratory Director

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LABORATORY NARRATIVE

TO-14

Burns & McDonnell Workorder# 0109163

Two 6 Liter Summa Canister samples were received on September 14, 2001. The laboratory performed analysis via EPA Method TO-14 using GC/MS in the full scan mode. The method involves concentrating up to 0.5 liters of air. The concentrated aliquot is then flash vaporized and swept through a water management system to remove water vapor. Following dehumidification, the sample passes directly into the GC/MS for analysis. See the data sheets for the reporting limits for each compound.

During the five point calibration, two low-level standards are used. The low-level standard for TO-14 compounds is spiked at 0.5 ppbv and represents the reporting limit for these compounds. The low-level standard for the non-TO-14 compounds is spiked at 2.0 ppbv and represents the reporting limit for these compounds. The TO-14 compounds are present in both standards but are excluded from reporting in the 2.0 ppbv standard since a lower level is already included in the curve.

Method modifications taken to run these samples include:

Requirement	TO-14	ATL Modifications
Internal standard retention times.	Not specified.	Within 0.50 minutes of most recent daily CCV internal standards
Internal standard recoveries.	Not specified.	Within 40% of the daily CCV internal standard area for blanks and samples.
Initial calibration criteria.	Not specified.	RSD of 30% or less for standard compounds, 40% or less for non-standard and polar compounds
Continuing calibration verification criteria	Not specified.	70 - 130% for at least 90% of standard compounds, 60 - 140% for at least 80% of non-standard and polar compounds
Response factor for quantitation.	Average response factor (ICAL).	Average response factor (ICAL).

Receiving Notes

There were no receiving discrepancies.

Analytical Notes

There were no analytical discrepancies.

Definition of Data Qualifying Flags

Seven qualifiers may have been used on the data analysis sheets and indicates as follows:

- B Compound present in laboratory blank greater than reporting limit(background subtraction not performed).
 - J Estimated value.
 - E Exceeds instrument calibration range.
 - S Saturated peak.
 - Q Exceeds quality control limits.
 - U Compound analyzed for but not detected above the reporting limit.
 - N The identification is based on presumptive evidence.

SAMPLE NAME: RPM-N-SUM-09-11-01

ID#: 0109163-01A

File Name:	g091811		Date of Collec	tion: 9/11/01
Dil Factor:	1.96)		Date of Analysis: 9/18/01	
Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	Amount (ppbv)	Amount (uG/m3)
Benzene	0.98	3.2	Not Detected	Not Detected
Toluene	0.98	3.8	3.0	11
Ethyl Benzene	0.98	4.3	Not Detected	Not Detected
m,p-Xylene	0.98	4.3	2.4	11
o-Xylene	0.98	4.3	1.3	5.6
Container Type: 6 Liter Summa	Canister			8# 1b1
Surrogates		%Recovery	·.	Method Limits
1,2-Dichloroethane-d4		104		70-130
Toluene-d8		99		70-130
4-Bromofluorobenzene		102		70-130

SAMPLE NAME: RPM-W-SUM-09-11-01

ID#: 0109163-02A

File Name: Dil. Factor:	g091726 2.01		Date of Collection: 9/11/01 Date of Analysis: 9/18/01			
Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	Amount (ppbv)	Amount (uG/m3)		
Benzene	1.0	3.3	Not Detected	Not Detected		
Toluene	- 1.0	3.8	2.6	10		
Ethyl Benzene	1.0	4.4	Not Detected	Not Detected		
m,p-Xylene	1.0	4.4	Not Detected	Not Detected		
o-Xylene	1.0	4.4	Not Detected	Not Detected		
Container Type: 6 Liter Summa	Canister					
Surrogates		%Recovery		Method Limits		
1,2-Dichloroethane-d4		103		70-130		
Toluene-d8		99		70-130		
4-Bromofluorobenzene		100		70-130		

SAMPLE NAME: Lab Blank

ID#: 0109163-03A

EPA METHOD TO-14 GC/MS FULL SCAN

Date of Collection: NA

Dil. Factor:	1,00		Date of Analysis: 9/17/01			
Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	Amount (ppbv)	Amount (uG/m3)		
Benzene	0.50	1.6	Not Detected	Not Detected		
Toluene	0.50	1.9	Not Detected	Not Detected		
Ethyl Benzene	0.50	2.2	Not Detected	Not Detected		
m,p-Xylene	0.50	2.2	Not Detected	Not Detected		
o-Xylene	0.50	2.2	Not Detected	Not Detected		

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits		
1,2-Dichloroethane-d4	101	70-130		
Toluene-d8	101	70-130		
4-Bromofluorobenzene	102	70-130		

SAMPLE NAME: Lab Blank

ID#: 0109163-03B

File Name: Dit Factor:	g091805 1.00		Date of Collection: NA Date of Analysis: 9/18/01				
Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	Amount (ppbv)	Amount (uG/m3)			
Benzene	0.50	1.6	Not Detected	Not Detected			
Toluene	0.50	1.9	Not Detected	Not Detected			
Ethyl Benzene	0.50	2.2	Not Detected	Not Detected			
m,p-Xylene	0.50	2.2	Not Detected	Not Detected			
o-Xylene	0.50	2.2	Not Detected	Not Detected			
Container Type: NA - Not Applic	cable			Method			
Surrogates		%Recovery		Limits			
1,2-Dichloroethane-d4		99		70-130			
Toluene-d8		102		70-130			
4-Bromofluorobenzene		99		70-130			

SAMPLE NAME: LCS

ID#: 0109163-04A

EPA METHOD TO-14 GC/MS FULL SCAN

File Name: Q091706 Date of Collection: NA
Dil. Factor: 1,00 Date of Analysis: 9/17/01

Rpt. Limit	Rpt. Limit	%Recovery
(bbpA)	(ud/ms)	/onecovery
0.50	1.6	87
0.50	1.9	97
0.50	2.2	93
0.50	2.2	99
0.50	2.2	114
	(ppbv) 0.50 0.50 0.50 0.50	(ppbv) (uG/m3) 0.50 1.6 0.50 1.9 0.50 2.2 0.50 2.2

Container Type: NA - Not Applicable

Surrogates	%Recovery	Limits
1,2-Dichloroethane-d4	98	70-130
Toluene-d8	106	70-130
4-Bromofluorobenzene	101	70-130

SAMPLE NAME: LCS

ID#: 0109163-04B

EPA METHOD TO-14 GC/MS FULL SCAN

File Name: g001903	Date of Collection: NA
File Name: gue 1803	Annual property of the state of the property of the property of the state of the st
and the State Country of the Country	
Dil Factor 1.00	Date of Analysis: 9/18/01

Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	%Recovery		
Benzene	0.50	1.6	95		
Toluene	0.50	1.9	104		
Ethyl Benzene	0.50	2.2	100		
m,p-Xylene	0.50	2.2	100		
o-Xylene	0.50	2.2	111		

Container Type: NA - Not Applicable

Surrogates	%Recovery	Limits
1,2-Dichloroethane-d4	98	70-130
Toluene-d8	103	70-130
4-Bromofluorobenzene	99	70-130



CHAIN-OF-CUSTODY RECORD

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WORK ORDER #: 0109164

Work Order Summary

CLIENT:

Ms. Kim Nichols

BILL TO:

Ms. Margaret Kelley

Burns & McDonnell 2601 W. 22nd St.

Burns & McDonnell

2601 W. 22nd St.

Oakbrook, IL 60523-1229

Oakbrook, IL 60523-1229

PHONE:

630-990-0300x226

P.O. #

Burns & McDonnell

FAX:

630-990-0301

PROJECT#

27194-4.07 Rogers Park Main

DATE RECEIVED:

9/14/01

CONTACT:

DeDe Dodge

DATE COMPLETED:

9/21/01

FRACTION# NAME

TEST TO-14 RECEIPT VAC./PRES. 10.0 "Hg

01A 02A 03A RPM-N-SUM-09-12-01 RPM-W-SUM-09-12-01

TO-14

10.0 "Hg NA

Lab Blank

TO-14

04A

LCS

TO-14

NA

CERTIFIED BY:

DATE:

09/21/01

Laboratory Director

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LABORATORY NARRATIVE TO-14

Burns & McDonnell Workorder# 0109164

Two 6 Liter Summa Canister samples were received on September 14, 2001. The laboratory performed analysis via EPA Method TO-14 using GC/MS in the full scan mode. The method involves concentrating up to 0.5 liters of air. The concentrated aliquot is then flash vaporized and swept through a water management system to remove water vapor. Following dehumidification, the sample passes directly into the GC/MS for analysis. See the data sheets for the reporting limits for each compound.

During the five point calibration, two low-level standards are used. The low-level standard for TO-14 compounds is spiked at 0.5 ppbv and represents the reporting limit for these compounds. The low-level standard for the non-TO-14 compounds is spiked at 2.0 ppbv and represents the reporting limit for these compounds. The TO-14 compounds are present in both standards but are excluded from reporting in the 2.0 ppbv standard since a lower level is already included in the curve.

Method modifications taken to run these samples include:

Requirement	TO-14	ATL Modifications
Internal standard retention times.	Not specified.	Within 0.50 minutes of most recent daily CCV internal standards
Internal standard recoveries.	Not specified.	Within 40% of the daily CCV internal standard area for blanks and samples.
Initial calibration criteria.	Not specified.	RSD of 30% or less for standard compounds, 40% or less for non-standard and polar compounds
Continuing calibration verification criteria	Not specified.	70 - 130% for at least 90% of standard compounds, 60 - 140% for at least 80% of non-standard and polar compounds
Response factor for quantitation.	Average response factor (ICAL).	Average response factor (ICAL).

Receiving Notes

There were no receiving discrepancies.

Analytical Notes

There were no analytical discrepancies.

Definition of Data Qualifying Flags

Seven qualifiers may have been used on the data analysis sheets and indicates as follows:

- B Compound present in laboratory blank greater than reporting limit(background subtraction not performed).
 - J Estimated value.
 - E Exceeds instrument calibration range.
 - S Saturated peak.
 - Q Exceeds quality control limits.
 - U Compound analyzed for but not detected above the reporting limit.
 - N The identification is based on presumptive evidence.

SAMPLE NAME: RPM-N-SUM-09-12-01

ID#: 0109164-01A

File Name: Dil. Factor:	r091811 2.01		Date of Collect Date of Analy	
Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	Amount (ppbv)	Amount (uG/m3)
Benzene	1.0	3.3	Not Detected	Not Detected
Toluene	1.0	3.8	1.2	4.8
Ethyl Benzene	1.0	4.4	Not Detected	Not Detected
m,p-Xylene	1.0	4.4	Not Detected	Not Detected
o-Xylene	1.0	4.4	Not Detected	Not Detected
Container Type: 6 Liter Summa	a Canister	_		Method
Surrogates		%Recovery		Limits
1,2-Dichloroethane-d4		116		70-130
Toluene-d8		101		70-130
4-Bromofluorobenzene		110		70-130

SAMPLE NAME: RPM-W-SUM-09-12-01

ID#: 0109164-02A

File Name: Dil. Factor:	r091812 2.01		Date of Collection Date of Analy	
Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	Amount (ppbv)	Amount (uG/m3)
Benzene	- 1.0	3.3	Not Detected	Not Detected
Toluene	1.0	3.8	1.5	5.8
Ethyl Benzene	1.0	4.4	Not Detected	Not Detected
m,p-Xylene	1.0	4.4	1.1	4,9
o-Xylene	1.0	4.4	Not Detected	Not Detected
Container Type: 6 Liter Summa	Canister			
Surrogates		%Recovery		Method Limits
1,2-Dichloroethane-d4		121		70-130
, Toluene-d8		97		70-130
4-Bromofluorobenzene		105		70-130

SAMPLE NAME: Lab Blank

ID#: 0109164-03A

File Name: Dil. Factor:	r091808 1.00		Date of Collect Date of Analy	
Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	Amount (ppbv)	Amount (uG/m3)
Benzene	0.50	1.6	Not Detected	Not Detected
Toluene	0.50	1.9	Not Detected	Not Detected
Ethyl Benzene	0.50	2.2	Not Detected	Not Detected
m,p-Xylene	0.50	2.2	Not Detected	Not Detected
o-Xylene	0.50	2.2	Not Detected	Not Detected
Container Type: NA - Not Appli	cable			
Surrogates		%Recovery		Method Limits
1,2-Dichloroethane-d4		115		70-130
Toluene-d8		98		70-130
4-Bromofluorobenzene		117		70-130

SAMPLE NAME: LCS

ID#: 0109164-04A

EPA METHOD TO-14 GC/MS FULL SCAN

File Name: rn91804 Date of Collection: NA	
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Dill Factor: 100 Date of Analysis* 9/18/01	
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Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	%Recovery
Benzene	0.50	1.6	98
Toluene	0.50	1.9	103
Ethyl Benzene	0.50	2.2	103
m,p-Xylene	0.50	2.2	115
o-Xylene	0.50	2.2	125

Container Type: NA - Not Applicable

Surrogates	%Recovery	Limits
1,2-Dichloroethane-d4	112	70-130
Toluene-d8	103	70-130
4-Bromofluorobenzene	102	70-130



CHAIN-OF-CUSTODY RECORD

Sample Transportation Notice

Sample Transportation Notice

180 BLUE RAVINE ROAD, SUITE B
Relinquishing signature on this document indicates that sample is being shipped in compliance FOLSOM, CA 95630-4719
with all applicable local, State, Federal, national, and international laws, regulations and (916) 985-1000 FAX: (916) 985-1020 harmless, defend, and indemnify Air Toxics Limited against any claim, demand, or action of any kind, related to the collection, handling, or shipping of samples. D.O.T. Hotline (800) 467-4922 ordinances of any kind. Air Toxics Limited assumes no liability with respect to the collection, handling or shipping of these samples. Relinquishing signature also indicates agreement to hold

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WORK ORDER #: 0109193

Work Order Summary

CLIENT:

Ms. Kim Nichols

Burns & McDonnell

2601 W. 22nd St.

Oakbrook, IL 60523-1229

BILL TO: N

Ms. Margaret Kelley

Burns & McDonnell

2601 W. 22nd St. Oakbrook, IL 60523-1229

PHONE:

630-990-0300x226

P.O. #

27194-4.07

FAX:

630-990-0301

PROJECT#

27194-4.07 Rogers Park Main

DATE RECEIVED:

9/15/01

CONTACT:

DeDe Dodge

DATE COMPLETED:

9/24/01

RECEIPT VAC/PRES. TEST FRACTION# NAME 10.0 "Hg TO-14 01A RPM-N-SUM-09-13-01 TO-14 7.0 "Hg RPM-S-SUM-09-13-01 02A 10.0 "Hg TO-14 03A RPM-E-SUM-09-13-01 10.0 "Hg TO-14 04A RPM-W-SUM-09-13-01 TO-14 11.0 "Hg 05A RPM-S-SUM-09-14-01 9.0 "Hg RPM-W-SUM-09-14-01 TO-14 06A TO-14 NΑ Lab Blank 07A NA TO-14 07B Lab Blank NA TO-14 08A LCS NA LCS TO-14 08B

CERTIFIED BY:

Sinda d. Fruman

DATE: 09/24/01

Laboratory Director

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Certification numbers: CA ELAP - 1149, NY ELAP - 11291, UT ELAP - E-217, AZ ELAP - AZ0567, LA - AI 30763

180 BLUE RAVINE ROAD, SUITE B FOLSOM, CA - 95630 (916) 985-1000 . (800) 985-5955 . FAX (916) 985-1020

LABORATORY NARRATIVE TO-14

Burns & McDonnell Workorder# 0109193

Six 6 Liter Summa Canister samples were received on September 15, 2001. The laboratory performed analysis via EPA Method TO-14 using GC/MS in the full scan mode. The method involves concentrating up to 0.5 liters of air. The concentrated aliquot is then flash vaporized and swept through a water management system to remove water vapor. Following dehumidification, the sample passes directly into the GC/MS for analysis. See the data sheets for the reporting limits for each compound.

During the five point calibration, two low-level standards are used. The low-level standard for TO-14 compounds is spiked at 0.5 ppbv and represents the reporting limit for these compounds. The low-level standard for the non-TO-14 compounds is spiked at 2.0 ppbv and represents the reporting limit for these compounds. The TO-14 compounds are present in both standards but are excluded from reporting in the 2.0 ppbv standard since a lower level is already included in the curve.

Method modifications taken to run these samples include:

Requirement	TO-14	ATL Modifications
Internal standard retention times.	Not specified.	Within 0.50 minutes of most recent daily CCV internal standards
Internal standard recoveries.	Not specified.	Within 40% of the daily CCV internal standard area for blanks and samples.
Initial calibration criteria.	Not specified.	RSD of 30% or less for standard compounds, 40% or less for non-standard and polar compounds
Continuing calibration verification criteria	Not specified.	70 - 130% for at least 90% of standard compounds, 60 - 140% for at least 80% of non-standard and polar compounds
Response factor for quantitation.	Average response factor (ICAL).	Average response factor (ICAL).

Receiving Notes

There were no receiving discrepancies.

Analytical Notes

There were no analytical discrepancies.

Definition of Data Qualifying Flags

Seven qualifiers may have been used on the data analysis sheets and indicates as follows:

- B Compound present in laboratory blank greater than reporting limit(background subtraction not performed).
 - J Estimated value.
 - E Exceeds instrument calibration range.
 - S Saturated peak.
 - Q Exceeds quality control limits.
 - U Compound analyzed for but not detected above the reporting limit.
 - N The identification is based on presumptive evidence.

SAMPLE NAME: RPM-N-SUM-09-13-01

ID#: 0109193-01A

File Name: Dil. Factor:	q092407 2.01	q092407 2.01		Date of Collection: 9/13/01 Date of Analysis: 9/24/01	
Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	Amount (ppbv)	Amount (uG/m3)	
Benzene	1.0	3.3	Not Detected	Not Detected	
Toluene	1.0	3.8	2.0	7.5	
Ethyl Benzene	1.0	4.4	Not Detected	Not Detected	
m,p-Xylene	1.0	4.4	Not Detected	Not Detected	
o-Xvlene	1.0	4.4	Not Detected	Not Detected	

Surrogates	%Recovery	Limits
1,2-Dichloroethane-d4	99	70-130
Toluene-d8	94	70-130
4-Bromofluorobenzene	85	70-130

SAMPLE NAME: RPM-S-SUM-09-13-01

ID#: 0109193-02A

File Name: Dil. Factor:	q092408 1.75			
Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	Amount (ppbv)	Amount (uG/m3)
Benzene	0.88	2.8	Not Detected	Not Detected
Toluene	0.88	3.4	4.9	19
Ethyl Benzene	0.88	3.9	Not Detected	Not Detected
m,p-Xylene	0.88	3.9	Not Detected	Not Detected
o-Xylene	0.88	3.9	Not Detected	Not Detected
Container Type: 6 Liter Summa	Canister			
Surrogates	·	%Recovery		Method Limits
1,2-Dichloroethane-d4		98		70-130
Toluene-d8		94		70-130
4-Bromofluorobenzene		86		70-130

SAMPLE NAME: RPM-E-SUM-09-13-01

ID#: 0109193-03A

File Name: Dill Factor:	r092409 2.01		Date of Collection: 9/13 Date of Analysis: 9/24/0		
Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	Amount (ppbv)	Amount (uG/m3)	
Benzene	1.0	3.3	Not Detected	Not Detected	
Toluene	1.0	3.8	Not Detected	Not Detected	
Ethyl Benzene	1.0	4.4	Not Detected	Not Detected	
m,p-Xylene	1.0	4.4	Not Detected	Not Detected	
o-Xylene	1.0	4.4	Not Detected	Not Detected	
Container Type: 6 Liter Summa	a Canister			Method	
Surrogates		%Recovery		Limits	
1,2-Dichloroethane-d4		111		70-130	
Toluene-d8		97		70-130	
4-Bromofluorobenzene	•	93		70-130	

SAMPLE NAME: RPM-W-SUM-09-13-01

ID#: 0109193-04A

File Name: Dil. Factor:	q092409 Date of Collect 2.01 Date of Analy		100	
Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	Amount (ppbv)	Amount (uG/m3)
Benzene	1.0	3.3	Not Detected	Not Detected
Toluene	1.0	3.8	Not Detected	Not Detected
Ethyl Benzene	1.0	4.4	Not Detected	Not Detected
m,p-Xylene	1.0	4.4	Not Detected	Not Detected
o-Xylene	1.0	4.4	Not Detected	Not Detected
Container Type: 6 Liter Summa	Canister Canister			
Surrogates		%Recovery		Method Limits
1,2-Dichloroethane-d4		99		70-130
Toluene-d8		92		70-130
4-Bromofluorobenzene		87		70-130

SAMPLE NAME: RPM-S-SUM-09-14-01

ID#: 0109193-05A

EPA METHOD TO-14 GC/MS FULL SCAN

Dil. Factor:	2.12	Date of Analysis: 9/24/01		
Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	Amount (ppbv)	Amount (uG/m3)
Benzene	1.1	3.4	Not Detected	Not Detected
Toluene	1.1	4.0	5.2	20
Ethyl Benzene	1.1	4.7	6.3	28
m,p-Xylene	1.1	4.7	25	110
o-Xylene	1.1	4.7	11	49

Container Type: 6 Liter Summa Canister

		wethod
Surrogates	%Recovery	Limits
1,2-Dichloroethane-d4	112	70-130
Toluene-d8	99	70-130
4-Bromofluorobenzene	96	70-130

SAMPLE NAME: RPM-W-SUM-09-14-01

ID#: 0109193-06A

EPA METHOD TO-14 GC/MS FULL SCAN

Date of Collection: 9/14/01

q092410

Dil. Factor:	1.91	Date of Analysis: 9/24/01			
Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	Amount (ppbv)	Amount (uG/m3)	
Benzene	0.96	3.1	Not Detected	Not Detected	
Toluene	0.96	3.6	4.8	19	
Ethyl Benzene	0.96	4.2	6.7	30	
m,p-Xylene	0.96	4.2	26	120	
o-Xvlene	0.96	4.2	13	58	

Container Type: 6 Liter Summa Canister

File Name:

		wethod
Surrogates	%Recovery	Limits
1,2-Dichloroethane-d4	100	70-130
Toluene-d8	91	70-130
4-Bromofluorobenzene	88	70-130

SAMPLE NAME: Lab Blank

ID#: 0109193-07A

EPA METHOD TO-14 GC/MS FULL SCAN

File Name: DIL Factor:	q092405 1.00		Date of Collect Date of Analy	
Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	Amount (ppbv)	Amount (uG/m3)
Benzene	0.50	1.6	Not Detected	Not Detected
Toluene	0.50	1.9	Not Detected	Not Detected
Ethyl Benzene	0.50	2.2	Not Detected	Not Detected
m,p-Xylene	0.50	2.2	Not Detected	Not Detected
o-Xylene	0.50	2.2	Not Detected	Not Detected
Container Type: NA - Not Appli	cable	•		
Surrogates	·	%Recovery		Method Limits
1,2-Dichloroethane-d4		98 -		70-130
Toluene-d8		92		70-130

4-Bromofluorobenzene

86

70-130

SAMPLE NAME: Lab Blank

ID#: 0109193-07B

File Name: Dil. Factor:	r092408 1.00			Collection: NA Analysis: 9/24/01	
Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	Amount (ppbv)	Amount (uG/m3)	
Benzene	0.50	1.6	Not Detected	Not Detected	
Toluene	0.50	1.9	Not Detected	Not Detected	
Ethyl Benzene	0.50	2.2	Not Detected	Not Detected	
m,p-Xylene	0.50	2.2	Not Detected	Not Detected	
o-Xylene	0.50	2.2	Not Detected	Not Detected	
Container Type: NA - Not Appl	icable				
Surrogates	•	%Recovery		Method Limits	
1.2-Dichloroethane-d4		108		70-130	
Toluene-d8		100		70-130	
4-Bromofluorobenzene		94		70-130	

SAMPLE NAME: LCS

ID#: 0109193-08A

EPA METHOD TO-14 GC/MS FULL SCAN

Date of Collection: NA

109

123

q092403

0.50

0.50

Dil Factor:	1.00		Date of Analysis: 9/24/01		
Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)		%Recovery	
Benzene	0.50	1.6		100	
Toluene	0.50	1.9		106	
Ethyl Benzene	0.50	2.2		109	

2.2

2.2

Container Type: NA - Not Applicable

File Name:

m,p-Xylene o-Xylene

Surrogates	_ %Recovery	метпоа Limits
1,2-Dichloroethane-d4	98	70-130
Toluene-d8	99	70-130
4-Bromofluorobenzene	96	70-130

SAMPLE NAME: LCS

ID#: 0109193-08B

EPA METHOD TO-14 GC/MS FULL SCAN

File Name: r/1924	
File Name: r0924	Date of Collection: NA
	Date of Analysis: 9/24/01
Dil Factor 1	

Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	%Recovery
Benzene	0.50	1.6	113
Toluene	0.50	1.9	120
Ethyl Benzene	0.50	2.2	116
m,p-Xylene	0.50	2.2	123
o-Xylene	0.50	2.2	122

Container Type: NA - Not Applicable

Surrogates	%Recovery	Limits
1,2-Dichloroethane-d4	104	70-130
Toluene-d8	101	70-130
4-Bromofluorobenzene	101	70-130



CHAIN-OF-CUSTODY RECORD

Sample Transportation Notice

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CHAIN-OF-CUSTODY RECORD

Sample Transportation Notice Build Report Relinquishing signature on this document indicates that sample is being shipped in compliance FOLSOM, CA 95630-47 with all applicable local, State, Federal, national, and international laws, regulations and (916) 985-1000 FAX: (916) 985-1020 ordinances of any kind. Air Toxics Limited assumes no liability with respect to the collection, harmless, defend, and indemnify Air Toxics Limited against any claim, demand, or action of any kind, related to the collection, handling, or shipping of samples, D.O.T. Hotline (800) 467-4922 handling or shipping of these samples. Relinquishing signature also indicates, agreement to hold

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WORK ORDER #: 0109294

Work Order Summary

CLIENT:

Ms. Kim Nichols

BILL TO:

Ms. Margaret Kelley

Burns & McDonnell

Burns & McDonnell

2601 W. 22nd St.

2601 W. 22nd St.

Oakbrook, IL 60523-1229

Oakbrook, IL 60523-1229 .

PHONE:

630-990-0300x226

P.O.#

FAX:

630-990-0301

PROJECT#

27194-4.07 Rogers' Park Main

DATE RECEIVED:

9/21/01

CONTACT:

DeDe Dodge

DATE COMPLETED:

9/28/01

		•	RECEIPT
FRACTION#	NAME	TEST	VAC/PRES.
01A	RPM-N-SUM-09-19-01	TO-14	9.5 "Hg
02A	RPM-S-SUM-09-19-01	TO-14	9.5 "Hg
03A	RPM-E-SUM-09-19-01	TO-14	9.5 "Hg
04A	RPM-W-SUM-09-19-01	TO-14	9.5 "Hg
05A	Lab Blank	TO-14	NA
<u></u> 06A	LCS	TO-14	NA

CERTIFIED BY:

Sinda d. Fruman

NATE: 09/28/

Laboratory Director

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Certfication numbers: CA ELAP - 1149, NY ELAP - 11291, UT ELAP - E-217, AZ ELAP - AZ0567, LA - AI 30763

180 BLUE RAVINE ROAD, SUITE B FOLSOM, CA - 95630 (916) 985-1000 . (800) 985-5955 . FAX (916) 985-1020

LABORATORY NARRATIVE TO-14

Workorder# 0109294

Four 6 Liter Summa Canister samples were received on September 21, 2001. The laboratory performed analysis via EPA Method TO-14 using GC/MS in the full scan mode. The method involves concentrating up to 0.5 liters of air. The concentrated aliquot is then flash vaporized and swept through a water management system to remove water vapor. Following dehumidification, the sample passes directly into the GC/MS for analysis. See the data sheets for the reporting limits for each compound.

During the five point calibration, two low-level standards are used. The low-level standard for TO-14 compounds is spiked at 0.5 ppbv and represents the reporting limit for these compounds. The low-level standard for the non-TO-14 compounds is spiked at 2.0 ppbv and represents the reporting limit for these compounds. The TO-14 compounds are present in both standards but are excluded from reporting in the 2.0 ppbv standard since a lower level is already included in the curve.

Method modifications taken to run these samples include:

Requirement	TO-14	ATL Modifications
Internal standard retention times.	Not specified.	Within 0.50 minutes of most recent daily CCV internal standards
Internal standard recoveries.	Not specified.	Within 40% of the daily CCV internal standard area for blanks and samples.
Initial calibration criteria.	Not specified.	RSD of 30% or less for standard compounds, 40% or less for non-standard and polar compounds
Continuing calibration verification criteria	Not specified.	70 - 130% for at least 90% of standard compounds, 60 - 140% for at least 80% of non-standard and polar compounds
Response factor for quantitation.	Average response factor (ICAL).	Average response factor (ICAL).

Receiving Notes

There were no receiving discrepancies.

Analytical Notes

There were no analytical discrepancies.

Definition of Data Qualifying Flags

Seven qualifiers may have been used on the data analysis sheets and indicates as follows:

- B Compound present in laboratory blank greater than reporting limit(background subtraction not performed).
 - J Estimated value.
 - E Exceeds instrument calibration range.
 - S Saturated peak.
 - Q Exceeds quality control limits.
 - U Compound analyzed for but not detected above the reporting limit.
 - N The identification is based on presumptive evidence.

SAMPLE NAME: RPM-N-SUM-09-19-01

ID#: 0109294-01A

File Name: Dil. Factor:	r092517 1,96		Date of Collection Date of Analy	
Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	Amount (ppbv)	Amount (uG/m3)
Benzene	0.98	3.2	Not Detected	Not Detected
Toluene	0.98	3.8	1.3	5.2
Ethyl Benzene	0.98	4.3	Not Detected	Not Detected
m,p-Xylene	0.98	4.3	Not Detected	Not Detected
o-Xylene	0.98	4.3	Not Detected	Not Detected
Container Type: 6 Liter Summ	a Canister			Method
Surrogates		%Recovery		Limits
1,2-Dichloroethane-d4		125		70-130
Toluene-d8		98		70-130
4-Bromofluorobenzene		85		70-130

SAMPLE NAME: RPM-S-SUM-09-19-01

ID#: 0109294-02A

File Name: Dil. Factor:	r092518		Date of Collect Date of Analy	stion: 9/19/01 sis: 9/25/01
Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	Amount (ppbv)	Amount (uG/m3)
Benzene	0.98	3.2	Not Detected	Not Detected
Toluene	0.98	3.8	1.2	4.5
Ethyl Benzene	0.98	4.3	Not Detected	Not Detected
m,p-Xylene	0.98	4.3	Not Detected	Not Detected
o-Xylene	0.98	4.3	Not Detected	Not Detected
Container Type: 6 Liter Summa Surrogates	Canister	%Recovery		Method Limits
1,2-Dichloroethane-d4		129		70-130
Toluene-d8		99		70-130
4-Bromofluorobenzene		87		70-130

SAMPLE NAME: RPM-E-SUM-09-19-01

ID#: 0109294-03A

File Name: Dil. Factor:	r092519 1:96		Date of Collection: 9/19/01 Date of Analysis: 9/25/01	
Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	Amount (ppbv)	Amount (uG/m3)
Benzene	0.98	3.2	Not Detected	Not Detected
Toluene	0.98	3.8	1.3	4.8
Ethyl Benzene	0.98	4.3	Not Detected	Not Detected
m,p-Xylene	0.98	4.3	Not Detected	Not Detected
o-Xylene	0.98	4.3	Not Detected	Not Detected
Container Type: 6 Liter Summa	a Canister			Method
Surrogates		%Recovery		Limits
1,2-Dichloroethane-d4		126		70-130
Toluene-d8		102		70-130
4-Bromofluorobenzene		86		70-130

SAMPLE NAME: RPM-W-SUM-09-19-01

ID#: 0109294-04A

File Name: Dil. Factor:	r092520 1,96		Date of Collect Date of Analy	sis: 9/19/01 sis: 9/25/01
Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	Amount (ppbv)	Amount (uG/m3)
Benzene	0.98	3.2	Not Detected	Not Detected
Toluene	0.98	3.8	1.3	4.9
Ethyl Benzene	0.98	4.3	Not Detected	Not Detected
m,p-Xylene	0.98	4.3	Not Detected	Not Detected
o-Xylene	0.98	4.3	Not Detected	Not Detected
Container Type: 6 Liter Summa	a Canister			لدم ما فع الأم
Surrogates		%Recovery		Method Limits
1,2-Dichloroethane-d4		128		70-130
Toluene-d8		101		70-130
4-Bromofluorobenzene		86		70-130

SAMPLE NAME: Lab Blank

ID#: 0109294-05A

EPA METHOD TO-14 GC/MS FULL SCAN

File Name: Dil. Factor:	r092511 1,00		Date of Collect Date of Analy	
Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	Amount (ppbv)	Amount (uG/m3)
Benzene	0.50	1.6	Not Detected	Not Detected
Toluene	0.50	1.9	Not Detected	Not Detected
Ethyl Benzene	0.50	2.2	Not Detected	Not Detected
m,p-Xylene	0.50	2.2	Not Detected	Not Detected
o-Xylene	0.50	2.2	Not Detected	Not Detected

Container Type: NA - Not Applicable

Surrogates	%Recovery	Limits
1,2-Dichtoroethane-d4	120	70-130
Toluene-d8	100	70-130
4-Bromofluorobenzene	86	70-130

SAMPLE NAME: LCS

ID#: 0109294-06A

File Name: Dil. Factor:	r092506 1.00		Date of Collection: NA Date of Analysis: 9/25/01
Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	%Recovery
Benzene	0.50	1.6	110
Toluene	0.50	1.9	118
Ethyl Benzene	0.50	2.2	116
m,p-Xylene	0.50	2.2	. 118
o-Xylene	0.50	2.2	
Container Type: NA - Not Appl	icable		Method
Surrogates		%Recovery	Limits
1,2-Dichloroethane-d4		112	70-130
Toluene-d8		102	70-130
4-Bromofluorobenzene		100	70-130



CHAIN-OF-CUSTODY RECORD

Sample Transportation Notice

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0109332 **WORK ORDER #:**

Work Order Summary

CLIENT:

Ms. Kim Nichols

BILL TO:

Ms. Margaret Kelley

Burns & McDonnell 2601 W. 22nd St.

Burns & McDonnell 2601 W. 22nd St.

Oakbrook, IL 60523-1229

Oakbrook, IL 60523-1229

PHONE:

630-990-0300x226

P.O. #

27194-4.07

FAX:

630-990-0301

PROJECT#

27194-4.07 Rogers Park Main

DATE RECEIVED:

9/22/01

CONTACT:

DeDe Dodge

DATE COMPLETED:

9/28/01

			RECEIPT
FRACTION#	NAME	TEST	VACJPRES.
01A	RPM-N-SUM-09-20-01	TO-14	10.0 "Hg
02A	RPM-S-SUM-09-20-01	TO-14	10.0 "Hg
03A	RPM-E-SUM-09-20-01	TO-14	10.0 "Hg
04A	RPM-N-SUM-09-21-01	TO-14	11.5 "Hg
05A	RPM-S-SUM-09-21-01	TO-14	11.5 " H g
06A	RPM-E-SUM-09-21-01	TO-14	11.0 "Hg
07A	RPM-W-SUM-09-21-01	TO-14	11.5 "Hg
07AA	RPM-W-SUM-09-21-01 Duplicate	TO-14	11.5 "Hg
08A	Lab Blank	TO-14	NA
09A	LCS	TO-14	NA

CERTIFIED BY:

DATE:

09/28/01

Laboratory Director

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Certfication numbers: CA ELAP - 1149, NY ELAP - 11291, UT ELAP - E-217, AZ ELAP - AZ0567, LA - AI 30763

180 BLUE RAVINE ROAD, SUITE B FOLSOM, CA - 95630 (916) 985-1000 . (800) 985-5955 . FAX (916) 985-1020

LABORATORY NARRATIVE TO-14

Burns & McDonnell Workorder# 0109332

Seven 6 Liter Summa Canister samples were received on September 22, 2001. The laboratory performed analysis via EPA Method TO-14 using GC/MS in the full scan mode. The method involves concentrating up to 0.5 liters of air. The concentrated aliquot is then flash vaporized and swept through a water management system to remove water vapor. Following dehumidification, the sample passes directly into the GC/MS for analysis. See the data sheets for the reporting limits for each compound.

During the five point calibration, two low-level standards are used. The low-level standard for TO-14 compounds is spiked at 0.5 ppbv and represents the reporting limit for these compounds. The low-level standard for the non-TO-14 compounds is spiked at 2.0 ppbv and represents the reporting limit for these compounds. The TO-14 compounds are present in both standards but are excluded from reporting in the 2.0 ppbv standard since a lower level is already included in the curve.

Method modifications taken to run these samples include:

Requirement	TO-14	ATL Modifications
Internal standard retention times.	Not specified.	Within 0.50 minutes of most recent daily CCV internal standards
Internal standard recoveries.	Not specified.	Within 40% of the daily CCV internal standard area for blanks and samples.
Initial calibration criteria.	Not specified.	RSD of 30% or less for standard compounds, 40% or less for non-standard and polar compounds
Continuing calibration verification criteria	Not specified.	70 - 130% for at least 90% of standard compounds, 60 - 140% for at least 80% of non-standard and polar compounds
Response factor for quantitation.	Average response factor (ICAL).	Average response factor (ICAL).

Receiving Notes

There were no receiving discrepancies.

Analytical Notes

There were no analytical discrepancies.

Definition of Data Qualifying Flags

Seven qualifiers may have been used on the data analysis sheets and indicates as follows:

- B Compound present in laboratory blank greater than reporting limit(background subtraction not performed).
 - J Estimated value.
 - E Exceeds instrument calibration range.
 - S Saturated peak.
 - Q Exceeds quality control limits.
 - U Compound analyzed for but not detected above the reporting limit.
 - N The identification is based on presumptive evidence.

SAMPLE NAME: RPM-N-SUM-09-20-01

ID#: 0109332-01A

EPA METHOD TO-14 GC/MS FULL SCAN

File Name: Dil. Factor:	g092722 2.01		Date of Collect Date of Analy	
Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	Amount (ppbv)	Amount (uG/m3)
Benzene	1.0	3.3	Not Detected	Not Detected
Toluene	1.0	3.8	Not Detected	Not Detected
Ethyl Benzene	1.0	4.4	Not Detected	Not Detected
m,p-Xylene	1.0	4.4	Not Detected	Not Detected
o-Xylene	1,0	4.4	Not Detected	Not Detected

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	107	70-130
Toluene-d8	97	70-130
4-Bromofluorobenzene	96	70-130

SAMPLE NAME: RPM-S-SUM-09-20-01

ID#: 0109332-02A

File Name: Dil. Factor:	g09 2723 2.01		Date of Collec Date of Analys	
Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	Amount (ppbv)	Amount (uG/m3)
Benzene	1.0	3.3	Not Detected	Not Detected
Toluene	1.0	3.8	1.0	4.0
Ethyl Benzene	1.0	4.4	Not Detected	Not Detected
m,p-Xylene	1.0	4.4	Not Detected	Not Detected
o-Xylene	1.0	4.4	Not Detected	Not Detected
Container Type: 6 Liter Summa	Canister	%Recovery		Method Limits
1,2-Dichloroethane-d4		109		70-130
T,2-Dichioroethane-04 Toluene-d8		95		70-130
4-Bromofluorobenzene		97		70-130

SAMPLE NAME: RPM-E-SUM-09-20-01

ID#: 0109332-03A

File Name; Dil. Factor:	g092724 2.01		Date of Collect Date of Analy	stion: 9/20/01 sis: 9/27/01
Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	Amount (ppbv)	Amount (uG/m3)
Benzene	1.0	3.3	Not Detected	Not Detected
Toluene	1.0	3.8	Not Detected	Not Detected
Ethyl Benzene	1.0	4.4	Not Detected	Not Detected
m,p-Xylene	1.0	4.4	Not Detected	Not Detected
o-Xylene	1.0	4.4	Not Detected	Not Detected
Container Type: 6 Liter Summa	Canister			Method
Surrogates		%Recovery		Limits
1,2-Dichloroethane-d4		108		70-130
Toluene-d8		93		70-130
4-Bromofluorobenzene		98		70-130

SAMPLE NAME: RPM-N-SUM-09-21-01

ID#: 0109332-04A

File Name: Dil. Factor:	g092725 2.17		Date of Collect Date of Analy	
Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	Amount (ppbv)	Amount (uG/m3)
Benzene	1.1	3.5	Not Detected	Not Detected
Toluene	1.1	4.2	Not Detected	Not Detected
Ethyl Benzene	1.1	4.8	Not Detected	Not Detected
m,p-Xylene	1.1	4.8	Not Detected	Not Detected
o-Xylene	1.1	4.8	Not Detected	Not Detected
Container Type: 6 Liter Summa	a Canister			
Surrogates		%Recovery		Method Limits
1,2-Dichloroethane-d4		110		70-130
Toluene-d8		93		70-130
4-Bromofluorobenzene		101		70-130

SAMPLE NAME: RPM-S-SUM-09-21-01

ID#: 0109332-05A

File Name: Dil. Factor:	g092726 2.17		Date of Collect Date of Analy	sis: 9/21/01 sis: 9/28/01
Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	Amount (ppbv)	Amount (uG/m3)
Benzene	1.1	3.5	Not Detected	Not Detected
Toluene	1.1	4.2	Not Detected	Not Detected
Ethyl Benzene	1.1	4.8	Not Detected	Not Detected
m,p-Xylene	1.1	4.8	Not Detected	Not Detected
o-Xylene	1.1	4.8	Not Detected	Not Detected
Container Type: 6 Liter Summ	a Canister	%Recovery		Method Limits
1,2-Dichloroethane-d4		110		70-130
Toluene-d8		94		70-130
4-Bromofluorobenzene		97		70-130

SAMPLE NAME: RPM-E-SUM-09-21-01

ID#: 0109332-06A

File Name: Dil. Factor:	g092727 2.12		Date of Collect Date of Analys	
Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	Amount (ppbv)	Amount (uG/m3)
Benzene	1.1	3.4	Not Detected	Not Detected
Toluene	1.1	4.0	1.1	4.2
Ethyl Benzene	1.1	4.7	Not Detected	Not Detected
m,p-Xylene	1.1	4.7	Not Detected	Not Detected
o-Xylene	1.1	4.7	Not Detected	Not Detected
Container Type: 6 Liter Summa	Canister			Method
Surrogates		%Recovery		Limits
1,2-Dichloroethane-d4		111	·	70-130
Toluene-d8		92		70-130
4-Bromofluorobenzene		101		70-130

SAMPLE NAME: RPM-W-SUM-09-21-01

ID#: 0109332-07A

File Name: Dil. Factor:	g092728 2,17		Date of Collect Date of Analy	stion: 9/21/01 sis: 9/28/01
Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	Amount (ppbv)	Amount (uG/m3)
Benzene	. 1.1	3.5	Not Detected	Not Detected
Toluene	1.1	4.2	Not Detected	Not Detected
Ethyl Benzene	1.1	4.8	Not Detected	Not Detected
m,p-Xylene	1.1	4.8	Not Detected	Not Detected
o-Xylene	1.1	4.8	Not Detected	Not Detected
Container Type: 6 Liter Summa	ı Canister			Method
Surrogates		%Recovery		Limits
1,2-Dichloroethane-d4		109		70-130
Toluene-d8		92		70-130
4-Bromofluorobenzene		98		70-130

SAMPLE NAME: RPM-W-SUM-09-21-01 Duplicate

ID#: 0109332-07AA

File Name: Dil. Factor:	g092729 2:17		Date of Collection Date of Analy	
Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	Amount (ppbv)	Amount (uG/m3)
Benzene	1.1	3.5	Not Detected	Not Detected
Toluene	1.1	4.2	Not Detected	Not Detected
Ethyl Benzene	1.1	4.8	Not Detected	Not Detected
m,p-Xylene	1.1	4.8	Not Detected	Not Detected
o-Xylene	1.1	4.8	Not Detected	Not Detected
Container Type: 6 Liter Summa	Canister	%Recovery		Method Limits
1,2-Dichloroethane-d4		109		70-130
Toluene-d8		94		70-130
4-Bromofluorobenzene		99		70-130

SAMPLE NAME: Lab Blank

ID#: 0109332-08A

File Name: Dil. Factor:	g092709 1.00		Date of Collection Date of Analy	
Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	Amount (ppbv)	Amount (uG/m3)
Benzene	0.50	1.6	Not Detected	Not Detected
Toluene	0.50	1.9	Not Detected	Not Detected
Ethyl Benzene	0.50	2.2	Not Detected	Not Detected
m,p-Xylene	0.50	2.2	Not Detected	Not Detected
o-Xylene	0.50	2.2	Not Detected	Not Detected
Container Type: NA - Not Applicable	e			
Surrogates		%Recovery		Method Limits
1,2-Dichloroethane-d4		98		70-130
Toluene-d8		98		70-130
4-Bromofluorobenzene		95		70-130

SAMPLE NAME: LCS

ID#: 0109332-09A

EPA METHOD TO-14 GC/MS FULL SCAN

g092706a

Date of Collection: NA

Dil, Factor:	1,00	D _i	ate of Analysis: 9/27/01
Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	%Recovery
Benzene	0.50	1.6	94
Toluene	0.50	1.9	98
Ethyl Benzene	0.50	2.2	100
m,p-Xylene	0.50	2.2	99
7	0.50	0.0	444

Container Type: NA - Not Applicable

File Name:

• • • • • • • • • • • • • • • • • • • •		Method
Surrogates	%Recovery	Limits
1,2-Dichloroethane-d4	98	70-130
Toluene-d8	97	70-130
4-Bromofluorobenzene	97	70-130



CHAIN-OF-CUSTODY RECORD

Sample Transportation Notice

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with all applicable local, State, Federal, national, and international laws, regulations and (916) 985-1000 FAX: (916) 985-1020 ordinances of any kind. Air Toxics Limited assumes no liability with respect to the collection, handling or shipping of these samples. Relinquishing signature also indicates agreement to hold harmless, defend, and indemnify Air Toxics Limited against any claim, demand, or action of any kind, related to the collection, handling, or shipping of samples. D.O.T. Hotline (800) 467-4922

Page of American State (916) 985-1000 FAX: (916) 985-1020 ordinances of any kind, related to the collection, handling, or shipping of samples. D.O.T. Hotline (800) 467-4922

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WORK ORDER #: 0109387

Work Order Summary

CLIENT:

Ms. Kim Nichols

BILL TO:

Ms. Margaret Kelley

Burns & McDonnell

Burns & McDonnell 2601 W. 22nd St.

2601 W. 22nd St.

Oakbrook, IL 60523-1229

Oakbrook, IL 60523-1229

PHONE:

630-990-0300x226

P.O. # 27194-4.07

FAX:

630-990-0301

PROJECT #

27194-4.07 Rogers Park Main

DATE RECEIVED:

9/26/01

CONTACT:

DeDe Dodge

DATE COMPLETED:

10/3/01

RECEIPT VAC/PRES. **TEST** FRACTION# NAME TO-14 6.5 "Hg RPM-S-SUM-09-24-01 01A8.0 "Hg RPM-E-SUM-09-24-01 TO-14 02A 8.0 "Hg TO-14 02AA RPM-E-SUM-09-24-01 Duplicate 03A Lab Blank TO-14 NA TO-14 NA 04A LCS

CERTIFIED BY:

Sinda d. Fruma.

10/03/01 DATE:

Laboratory Director

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Certification numbers: CA ELAP - 1149, NY ELAP - 11291, UT ELAP - E-217, AZ ELAP - AZ0567, LA - AI 30763

180 BLUE RAVINE ROAD, SUITE B FOLSOM, CA - 95630 (916) 985-1000 . (800) 985-5955 . FAX (916) 985-1020

LABORATORY NARRATIVE TO-14

Burns & McDonnell Workorder# 0109387

Two 6 Liter Summa Canister samples were received on September 26, 2001. The laboratory performed analysis via EPA Method TO-14 using GC/MS in the full scan mode. The method involves concentrating up to 0.5 liters of air. The concentrated aliquot is then flash vaporized and swept through a water management system to remove water vapor. Following dehumidification, the sample passes directly into the GC/MS for analysis. See the data sheets for the reporting limits for each compound.

During the five point calibration, two low-level standards are used. The low-level standard for TO-14 compounds is spiked at 0.5 ppbv and represents the reporting limit for these compounds. The low-level standard for the non-TO-14 compounds is spiked at 2.0 ppbv and represents the reporting limit for these compounds. The TO-14 compounds are present in both standards but are excluded from reporting in the 2.0 ppbv standard since a lower level is already included in the curve.

Method modifications taken to run these samples include:

Requirement	TO-14	ATL Modifications
Internal standard retention times.	Not specified.	Within 0.50 minutes of most recent daily CCV internal standards
Internal standard recoveries.	Not specified.	Within 40% of the daily CCV internal standard area for blanks and samples.
Initial calibration criteria.	Not specified.	RSD of 30% or less for standard compounds, 40% or less for non-standard and polar compounds
Continuing calibration verification criteria	Not specified.	70 - 130% for at least 90% of standard compounds, 60 - 140% for at least 80% of non-standard and polar compounds
Response factor for quantitation.	Average response factor (ICAL).	Average response factor (ICAL).

Receiving Notes

There were no receiving discrepancies.

Analytical Notes

There were no analytical discrepancies.

Definition of Data Qualifying Flags

Seven qualifiers may have been used on the data analysis sheets and indicates as follows:

- B Compound present in laboratory blank greater than reporting limit(background subtraction not performed).
 - J Estimated value.
 - E Exceeds instrument calibration range.
 - S Saturated peak.
 - Q Exceeds quality control limits.
 - U Compound analyzed for but not detected above the reporting limit.
 - N The identification is based on presumptive evidence.

SAMPLE NAME: RPM-S-SUM-09-24-01

ID#: 0109387-01A

EPA METHOD TO-14 GC/MS FULL SCAN

File Name: Dil. Factor:	g100112 1.71		Date of Collect Date of Analy		
Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	Amount (ppbv)	Amount (uG/m3)	
Benzene	0.86	2.8	Not Detected	Not Detected	
Toluene	0.86	3.3	Not Detected	Not Detected	
Ethyl Benzene	0.86	3.8	Not Detected	Not Detected	
m,p-Xylene	0.86	3.8	Not Detected	Not Detected	
o-Xylene	0.86	3.8	Not Detected	Not Detected	
Container Type: 6 Liter Summa	Canister	Ţ.			
Surrogates		%Recovery		Method Limits	
1,2-Dichloroethane-d4		108		70-130	
Toluene-d8		92		70-130	
4-Bromofluorobenzene		100		70-130	

SAMPLE NAME: RPM-E-SUM-09-24-01

ID#: 0109387-02A

EPA METHOD TO-14 GC/MS FULL SCAN

File Name: Dil. Factor:	g100113 1,83		Date of Collect Date of Analy	
Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	Amount (ppbv)	Amount (uG/m3)
Benzene	0.92	3.0	Not Detected	Not Detected
Toluene	0.92	3.5	Not Detected	Not Detected
Ethyl Benzene	0.92	4.0	Not Detected	Not Detected
m,p-Xylene	0.92	4.0	Not Detected	Not Detected
o-Xylene	0.92	4.0	Not Detected	
Container Type: 6 Liter Summa Surrogates	Canister	%Recovery		Method Limits
1.2-Dichloroethane-d4		108		70-130
Toluene-d8		94		70-130
4-Bromofluorobenzene		101		70-130

SAMPLE NAME: RPM-E-SUM-09-24-01 Duplicate

ID#: 0109387-02AA

EPA METHOD TO-14 GC/MS FULL SCAN

File Name: q100114 Date of Collection: 9/24/01
File Norse: #100114 Date of Collection: P/24/01
File Names Page of Collections 9/2/101
File Name: at 0.0114 Date of Collections 19/24/01
Ella Name: Data of Collections 0/0//01
Ella Nama. Data at Callactions D/97/01
Dil. Factor: 1.83 Date of Analysis: 10/1/01

Compound	Rpt. Lîmit (ppbv)	Rpt. Limit (uG/m3)	Amount (ppbv)	Amount (uG/m3)
Benzene	0.92	3.0	Not Detected	Not Detected
Toluene	0.92	3.5	Not Detected	Not Detected
Ethyl Benzene	0.92	4.0	Not Detected	Not Detected
m,p-Xylene	0.92	4.0	Not Detected	Not Detected
o-Xylene	0.92	4.0	Not Detected	Not Detected

Container Type: 6 Liter Summa Canister

, , , , , , , , , , , , , , , , , , ,		Method
Surrogates	%Recovery	Limits
1,2-Dichloroethane-d4	109	70-130
Toluene-d8	95	70-130
4-Bromofluorobenzene	97 .	70-130

SAMPLE NAME: Lab Blank

ID#: 0109387-03A

EPA METHOD TO-14 GC/MS FULL SCAN

g100109

Date of Collection: NA

Dil. Factor:	1.00	e de la contrata de la con-	Date of Analy	sis:-10/1/01
ompound enzene oluene thyl Benzene	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	Amount (ppbv)	Amount (uG/m3)
Benzene	0.50	1.6	Not Detected	Not Detected
Toluene	0.50	1.9	Not Detected	Not Detected
Ethyl Benzene	0.50	2.2	Not Detected	Not Detected
m,p-Xylene	0.50	- 2.2	Not Detected	Not Detected
o Vulono	0.50	22	Not Detected	Not Detected

Container Type: NA - Not Applicable

File Name:

Surrogates	%Recovery	Limits
1,2-Dichloroethane-d4	106	70-130
Toluene-d8	98	70-130
4-Bromofluorobenzene	99	70-130

SAMPLE NAME: LCS

ID#: 0109387-04A

EPA METHOD TO-14 GC/MS FULL SCAN

File Name; g100106 Dil. Factor: 1.00	Date of Collection: NA Date of Analysis: 10/1/01

Rpt. Limit	Rpt. Limit	8/ Danasana
(bbox)	(uG/ma)	%Recovery
0.50	1.6	97
0.50	1.9	. 98
0.50	2.2	98
0.50	2.2	98
0.50	2.2	109
	(ppbv) 0.50 0.50 0.50 0.50	(ppbv) (uG/m3) 0.50 1.6 0.50 1.9 0.50 2.2 0.50 2.2

Container Type: NA - Not Applicable

Surrogates	%Recovery	Limits
1,2-Dichloroethane-d4	104	70-130
Toluene-d8	99	70-130
4-Bromofluorobenzene	99	70-130



AN ENVIRONMENTAL ANALYTICAL LABORATORY

CHAIN-OF-CUSTODY RECORD

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Page _ <u>ဝ</u>

Only +13040 822129736761 TRS. 1 14MBCINT	Shipper Name	Helinquished By: (Signature) Date/Time Beceived By: (Signature) Date/Time G(2/p(0)	Detter time	11					PM-N-SUM-84-24 19-12-10 13-15-10	024 PRM-FS-WM-07-24-01 G-W4/1 W - BACX	OIA PM-8-SUM OF 24 of P2401/ 1 RTEX	PAN-N-SNIM-09-24-01 PUSHIN BITES	Lab Field Sample I.D. Date & Time Analy	Commence of the second of the	Collected By: Simplify Land	FAX 680-990-0301	2601 N. 22 PST. City DAN Brook State 12 Ziplas 23	(Changer,)	
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WORK ORDER #: 0109433

Work Order Summary

CLIENT:

Ms. Kim Nichols

Burns & McDonnell

2601 W. 22nd St.

Oakbrook, IL 60523-1229

BILL TO:

Ms. Margaret Kelley

Burns & McDonnell 2601 W. 22nd St.

Oakbrook, IL 60523-1229

PHONE:

630-990-0300x226

P.O. #

Burns & McDonnell

FAX:

630-990-0301

PROJECT #

27194-4.07 Rogers Park Main

DATE RECEIVED:

9/27/01

CONTACT:

DeDe Dodge

DATE COMPLETED:

10/4/01

RECEIPT TEST VAC/PRES. FRACTION# **NAME** 01A RPM-S-SUM-09-25-01 TO-14 8.5 "Hg TO-14 8.5 "Hg 01AA RPM-S-SUM-09-25-01 Duplicate TO-14 8.5 "Hg RPM-E-SUM-09-25-01 02A TO-14 NA 03A Lab Blank LCS TO-14 NA 04A

CERTIFIED BY:

Sinda d. Truman

DATE:

10/04/01

Laboratory Director

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Certfication numbers: CA ELAP - 1149, NY ELAP - 11291, UT ELAP - E-217, AZ ELAP - AZ0567, LA - AI 30763

180 BLUE RAVINE ROAD, SUITE B FOLSOM, CA - 95630 (916) 985-1000 . (800) 985-5955 . FAX (916) 985-1020

LABORATORY NARRATIVE TO-14

Burns & McDonnell Workorder# 0109433

Two 6 Liter Summa Canister samples were received on September 27, 2001. The laboratory performed analysis via EPA Method TO-14 using GC/MS in the full scan mode. The method involves concentrating up to 0.5 liters of air. The concentrated aliquot is then flash vaporized and swept through a water management system to remove water vapor. Following dehumidification, the sample passes directly into the GC/MS for analysis. See the data sheets for the reporting limits for each compound.

During the five point calibration, two low-level standards are used. The low-level standard for TO-14 compounds is spiked at 0.5 ppbv and represents the reporting limit for these compounds. The low-level standard for the non-TO-14 compounds is spiked at 2.0 ppbv and represents the reporting limit for these compounds. The TO-14 compounds are present in both standards but are excluded from reporting in the 2.0 ppbv standard since a lower level is already included in the curve.

Method modifications taken to run these samples include:

Requirement	TO-14	ATL Modifications
Internal standard retention times.	Not specified.	Within 0.50 minutes of most recent daily CCV internal standards
Internal standard recoveries.	Not specified.	Within 40% of the daily CCV internal standard area for blanks and samples.
Initial calibration criteria.	Not specified.	RSD of 30% or less for standard compounds, 40% or less for non-standard and polar compounds
Continuing calibration verification criteria	Not specified.	70 - 130% for at least 90% of standard compounds, 60 - 140% for at least 80% of non-standard and polar compounds
Response factor for quantitation.	Average response factor (ICAL).	Average response factor (ICAL).

Receiving Notes

There were no receiving discrepancies.

Analytical Notes

There were no analytical discrepancies.

Definition of Data Qualifying Flags

Seven qualifiers may have been used on the data analysis sheets and indicates as follows:

- B Compound present in laboratory blank greater than reporting limit(background subtraction not performed).
 - J Estimated value.
 - E Exceeds instrument calibration range.
 - S Saturated peak.
 - Q Exceeds quality control limits.
 - U Compound analyzed for but not detected above the reporting limit.

N - The identification is based on presumptive evidence.

SAMPLE NAME: RPM-S-SUM-09-25-01

ID#: 0109433-01A

EPA METHOD TO-14 GC/MS FULL SCAN

File Name: Dil, Factor:	g100115 1.87		Date of Collection: 9/25/01 Date of Analysis: 10/1/01	
Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	Amount (ppbv)	Amount (uG/m3)
Benzene	0.94	3.0	Not Detected	Not Detected
Toluene	0.94	3.6	Not Detected	Not Detected
Ethyl Benzene	0.94	4.1	Not Detected	Not Detected
m,p-Xylene	0.94	4.1	Not Detected	Not Detected
o-Xylene	0.94	4.1	Not Detected	Not Detected
Container Type: 6 Liter Summa	a Canister			
Surrogates		%Recovery		Method Limits
1,2-Dichloroethane-d4		109		70-130
Toluene-d8		94		70-130
4-Bromofluorobenzene		100		70-130

SAMPLE NAME: RPM-S-SUM-09-25-01 Duplicate

ID#: 0109433-01AA

EPA METHOD TO-14 GC/MS FULL SCAN

File Name: Dil. Factor:	g100116 1.87		Date of Collection: 9/25/01 Date of Analysis: 10/1/01	
Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	Amount (ppbv)	Amount (uG/m3)
Benzene	0.94	3.0	Not Detected	Not Detected
Toluene	0.94	3.6	Not Detected	Not Detected
Ethyl Benzene	0.94	4.1	Not Detected	Not Detected
m,p-Xylene	0.94	4.1	Not Detected	Not Detected
o-Xylene	0.94	4.1	Not Detected	Not Detected
Container Type: 6 Liter Sur	mma Canister			
••				Method
Surrogates		%Recovery		Limits

1,2-Dichloroethane-d4

4-Bromofluorobenzene

Toluene-d8

111

95

98

70-130

70-130

70-130

Page	5 of 8	

SAMPLE NAME: RPM-E-SUM-09-25-01

ID#: 0109433-02A

EPA METHOD TO-14 GC/MS FULL SCAN

File Name: Dif. Factor:	g100117 1.87		Date of Collection: 9/25/01 Date of Analysis: 10/1/01	
Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	Amount (ppbv)	Amount (uG/m3)
Benzene	0.94	3.0	Not Detected	Not Detected
Toluene	0.94	3.6	Not Detected	Not Detected
Ethyl Benzene	0.94	4.1	Not Detected	Not Detected
m,p-Xylene	0.94	4.1	Not Detected	Not Detected
o-Xylene	0.94	4.1	Not Detected	Not Detected
Container Type: 6 Liter Summ	a Canister	¥ 		
Surrogates		%Recovery		Method Limits
1,2-Dichloroethane-d4		108		70-130
Toluene-d8		93		70-130

4-Bromofluorobenzene

70-130

SAMPLE NAME: Lab Blank

ID#: 0109433-03A

EPA METHOD TO-14 GC/MS FULL SCAN

g100109

0.50

0.50

Date of Collection: NA

Not Detected

Not Detected

Not Detected

Not Detected

Dil. Factor:	1.00		Date of Analysis: 10/1/01	
Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	Amount (ppbv)	Amount (uG/m3)
Benzene	0.50	1.6	Not Detected	Not Detected
Toluene	0.50	1.9	Not Detected	Not Detected
Ethyl Benzene	0.50	2.2	Not Detected	Not Detected

2.2

2.2

Container Type: NA - Not Applicable

File Name:

m,p-Xylene

o-Xylene

.,		Method	
Surrogates	%Recovery	Limits	
1,2-Dichloroethane-d4	106	70-130	
Toluene-d8	98	70-130	
4-Bromofluorobenzene	99	70-130	

SAMPLE NAME: LCS

ID#: 0109433-04A

EPA METHOD TO-14 GC/MS FULL SCAN

The state of the s		Date of Collection: NA Date of Analysis: 10/1/01	
Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	%Recovery
Benzene	0.50	1.6	97
Toluene	0.50	1.9	98
Ethyl Benzene	0.50	2.2	98
m,p-Xylene	0.50	2.2	98
o-Xylene	0.50	2.2	109
Container Type: NA - Not Appli	icable		
Surrogates		%Recovery	Method Limits
1,2-Dichloroethane-d4		104	70-130
Toluene-d8		99	70-130
		10	

4-Bromofluorobenzene

99

70-130

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Sample Transportation Notice

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CHAIN-OF-CUSTODY RECORD

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P.O. # EMENS! MEMINAL Project # 27194-407 Project Name Response Project Name Response Project Name Response Project Name Analyses Requested An	State L ziple 523 Project # 27/94-407 Rush Spergrowth Project # 27/94-407 Rush Spergrowth Project Name Project Project Project Project Project Project Project Name Project Project Project Name Project Project Name Project Name Project Name Project
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Lab Use Only

WORK ORDER #: 0109484

Work Order Summary

CLIENT:

Ms. Kim Nichols

BILL TO:

Ms. Margaret Kelley

Burns & McDonnell 2601 W. 22nd St.

Burns & McDonnell

2601 W. 22nd St.

Oakbrook, IL 60523-1229

Oakbrook, IL 60523-1229

PHONE:

630-990-0300x226

P.O. #

Burns & McDonnell

FAX:

630-990-0301

PROJECT#

27194-4.07 Rogers Park Main

DATE RECEIVED:

9/29/01

CONTACT:

DeDe Dodge

DATE COMPLETED:

10/8/01

			RECEIPT
FRACTION#	NAME	TEST	VAC./PRES.
01A	RPM-N-SUM-09-26-01	TO-14	9. 0 "Hg
02A	RPM-S-SUM-09-26-01	TO-14	8.5 "Hg
03A	RPM-E-SUM-09-26-01	TO-14	9.0 "Hg
04A	RPM-W-SUM-09-26-01	TO-14	9.0 "Hg
05A	Lab Blank	TO-14	NA
- 06A	LCS	TO-14	NA

CERTIFIED BY:

10/08/01 DATE:

Laboratory Director

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LABORATORY NARRATIVE TO-14

Burns & McDonnell Workorder# 0109484

Four 6 Liter Summa Canister samples were received on September 28, 2001. The laboratory performed analysis via EPA Method TO-14 using GC/MS in the full scan mode. The method involves concentrating up to 0.5 liters of air. The concentrated aliquot is then flash vaporized and swept through a water management system to remove water vapor. Following dehumidification, the sample passes directly into the GC/MS for analysis. See the data sheets for the reporting limits for each compound.

During the five point calibration, two low-level standards are used. The low-level standard for TO-14 compounds is spiked at 0.5 ppbv and represents the reporting limit for these compounds. The low-level standard for the non-TO-14 compounds is spiked at 2.0 ppbv and represents the reporting limit for these compounds. The TO-14 compounds are present in both standards but are excluded from reporting in the 2.0 ppbv standard since a lower level is already included in the curve.

Method modifications taken to run these samples include:

Requirement	TO-14	ATL Modifications
Internal standard retention times.	Not specified.	Within 0.50 minutes of most recent daily CCV internal standards
Internal standard recoveries.	Not specified.	Within 40% of the daily CCV internal standard area for blanks and samples.
Initial calibration criteria.	Not specified.	RSD of 30% or less for standard compounds, 40% or less for non-standard and polar compounds
Continuing calibration verification criteria	Not specified.	70 - 130% for at least 90% of standard compounds, 60 - 140% for at least 80% of non-standard and polar compounds
Response factor for quantitation.	Average response factor (ICAL).	Average response factor (ICAL).

Receiving Notes

There were no receiving discrepancies.

Analytical Notes

There were no analytical discrepancies.

Definition of Data Qualifying Flags

Seven qualifiers may have been used on the data analysis sheets and indicates as follows:

- B Compound present in laboratory blank greater than reporting limit(background subtraction not performed).
 - J Estimated value.
 - E Exceeds instrument calibration range.
 - S Saturated peak.
 - Q Exceeds quality control limits.
 - U Compound analyzed for but not detected above the reporting limit.
 - N The identification is based on presumptive evidence.

SAMPLE NAME: RPM-N-SUM-09-26-01

ID#: 0109484-01A

EPA METHOD TO-14 GC/MS FULL SCAN

File Name: Dil, Factor:	g100411 1.91		Date of Collect Date of Analy	
Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	Amount (ppbv)	Amount (uG/m3)
Benzene	0.96	3.1	Not Detected	Not Detected
Toluene	0.96	3.6	Not Detected	Not Detected
Ethyl Benzene	0.96	4.2	Not Detected	Not Detected
m,p-Xylene	0.96	4.2	Not Detected	Not Detected
o-Xylene	0.96	4.2	Not Detected	Not Detected
Container Type: 6 Liter Summa	a Canister			Method
Surrogates		%Recovery		Limits
1,2-Dichloroethane-d4		114		70-130
Toluene-d8		94		70-130
4-Bromofluorobenzene		101		70-130

SAMPLE NAME: RPM-S-SUM-09-26-01

ID#: 0109484-02A

EPA METHOD TO-14 GC/MS FULL SCAN

File Name: Dil Factor:	g100412 1.87		Date of Collection: 9/26/01 Date of Analysis: 10/4/01			
Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	Amount (ppbv)	Amount (uG/m3)		
Benzene .	0.94	3.0	Not Detected	Not Detected		
Toluene	0.94	3.6	Not Detected	Not Detected		
Ethyl Benzene	0.94	0.94 4.1 Not Detected				
m,p-Xylene	0.94	4.1	Not Detected	Not Detected		
o-Xylene	0.94	4.1	Not Detected	Not Detected		
Container Type: 6 Liter Summa	ı Canister					
Surrogates		%Recovery		Method Limits		
1,2-Dichloroethane-d4		115		70-130		
Toluene-d8		96		70-130		

4-Bromofluorobenzene

99

70-130

SAMPLE NAME: RPM-E-SUM-09-26-01

ID#: 0109484-03A

EPA METHOD TO-14 GC/MS FULL SCAN

g100413

Date of Collection: 9/26/01

Dil: Factor:	1.91		Date of Analysis: 10/4/01		
Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	Amount (ppbv)	Amount (uG/m3) Not Detected	
Benzene	0.96	3.1	Not Detected		
Toluene	0.96	3.6	Not Detected	Not Detected	
Ethyl Benzene	0.96	4.2	Not Detected	Not Detected	
m,p-Xylene	0.96	4.2	Not Detected	Not Detected	
o-Xylene	•		Not Detected	Not Detected	

Container Type: 6 Liter Summa Canister

••		Method
Surrogates	%Recovery	Limits
1,2-Dichloroethane-d4	113	70-130
Toluene-d8	95	70-130
4-Bromofluorobenzene	97	70-130

SAMPLE NAME: RPM-W-SUM-09-26-01

ID#: 0109484-04A

EPA METHOD TO-14 GC/MS FULL SCAN

File Name; Dil. Factor;	g100414 1.91			Date of Collection: 9/26/01 Date of Analysis: 10/4/01		
Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	Amount (ppbv)	Amount (uG/m3)		
Benzene	0.96	3.1	Not Detected	Not Detected		
Toluene	0.96	3.6	Not Detected	Not Detected		
Ethyl Benzene	0.96	0.96 4.2 Not Detecte		Not Detected		
m,p-Xylene	0.96	4.2	Not Detected	Not Detected		
o-Xylene	0.96	4.2	Not Detected	Not Detected		
Container Type: 6 Liter Summa	a Canister					
				Method Limits		
Surrogates		%Recovery				
1,2-Dichloroethane-d4		114				

Toluene-d8

4-Bromofluorobenzene

94

98

70-130

70-130

SAMPLE NAME: Lab Blank

ID#: 0109484-05A

EPA METHOD TO-14 GC/MS FULL SCAN

0.50

File Name: Dil. Factor:	g100405 1.00		Date of Collection: NA Date of Analysis: 10/4/01		
Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	Amount (ppbv)	Amount (uG/m3)	
Benzene	0.50	1.6	Not Detected	Not Detected	
Toluene	0.50	1.9	Not Detected	Not Detected	
Ethyl Benzene	0.50	2.2	Not Detected	Not Detected	
m,p-Xylene	0.50	2.2	Not Detected	Not Detected	

2.2

Not Detected

Mathad

Not Detected

Container Type: NA - Not Applicable

o-Xylene

Surrogates	%Recovery	Limits
1,2-Dichloroethane-d4	111	70-130
Toluene-d8	99	70-130
4-Bromofluorobenzene	98	70-130



SAMPLE NAME: LCS

ID#: 0109484-06A

EPA METHOD TO-14 GC/MS FULL SCAN

Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	%Recovery
Dil. Factor:	9100403 1.00		Date of Analysis: 10/4/01

Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	%Recovery
Benzene	0.50	1.6	98
Toluene	0.50	1.9	98
Ethyl Benzene	0.50	2.2	99
m,p-Xylene	0.50	2.2	97 .
o-Xylene	0.50	2.2	108

Container Type: NA - Not Applicable

Surrogates	%Recovery	Limits
1,2-Dichloroethane-d4	106	70-130
Toluene-d8	100	70-130
4-Bromofluorobenzene	100	70-130

Q AIR TOXICS LTD. AN ENVIRONMENTAL ANALYTICAL LABORATORY

CHAIN-OF-CUSTODY RECORD

Sample Transportation Notice

180 BLUE RAVINE ROAD, Relinquishing signature on this document indicates that sample is being shipped in compliance FOLSOM, CA 95630-4719 harmless, defend, and indemnify Air Toxics Limited against any claim, demand, or action of any kind, related to the collection, handling, or shipping of samples. D.O.T. Hotline (800) 467-4922 handling or shipping of these samples. Relinquishing signature also indicates agreement to hold ordinances of any kind. Air Toxics Limited assumes no liability with respect to the collection, with all applicable local, State, Federal, national, and international laws, regulations and

(916) 985-1000 FAX: (916) 985-1020 180 BLUE RAVINE ROAD, SUITE B

Lab FOOK STATIONS X3	me JAMA	Reinquished By (Signature) Date/I ime Reco			en en en en en en en en en en en en en e	LAW KAM W. Sum-19-26-01-326-01	10 Miller Sum 19 26 of 9 Hol	1. 10-12-40 SEMM 35-11-10-11	W COM-N-SUM- OF HON 9.	Lab I.D. Field Sample I.D.	Collected By: Signature	Address Address City City City Phone Address FAX	10%
Traingly 2x 1849	me "	Received By: (Signature) Date/Time		en en en en en en en en en en en en en e	The state of the s	Woll Thex	MI BOX	1 1 WACE	926-01 19.5mg 278X	Date & Time And	And water of the same	City State Le Zip	
Condition custody seats intact? Yes No (Non	1877 - 21 con ma to but	Notes:	The state of the s	A construction of the second s				to the second se		Analyses Requested		Project Warme	Project info:
None 0109484			The state of the s			THE GOVE			2	Canister Pressure / Vacuum	B C B O C C	Rush Specify	Turn Around Time:

ERI Quality Assurance Cover Letter For VOC

(TASC)

The samples listed below are VOC samples analyzed by EPA standard method TO-15 for the BURNS AND MCDONNELL project. The report consists of one excel spreadsheet, Q0108C.xls. No unusual circumstances were encountered in the analysis of these samples

Sample ID

Q0108C RPM-E-ERI-SUM RPM-N-ERI-SUM Field Void Samples

Quality Assurance Review Checklist

Table 1. QA/QC Check List

Test	Acceptance Criteria	QA Meets Criteria	QA Does Not Meet Criteria
Holding Times*	Analysis 30 days	Х	
Initial Calibration*	RSD or RRF ≤ 30%.	X	
Calibration Verification * (PAMS / UAT / NBS) standards	70% to 130% recovery.	х	
GC/MS Tuning*	See Table 1 below	X	
Laboratory Blank	< MQL (3 time MDL)	X	D
Laboratory Duplicate	For sample Conc. > 2 time MDL. ±30% RPD	Х	
Report Delivery	within 40 days of Sample Date	X	

^{*}Samples associated with QA not to meet acceptance criteria are not entered into the TASC database.

Notes

Data reviewed by: Tian-min Xie, ERI QA Officer

- Date

Quantitation Report

Vial: 13 Data File : C:\HPCHEM\1\DATA\Q0108B\Q0108D34.D Operator: : 16 Aug 01 5:45 am Acq On : GC/MS Ins : RPM-E-ERI-SUM Inst Sample Multiplr: 1.00 : 01204-01 iisc MS Integration Params: JKUM1.E Quand Results File: QU0108.RES Quant Time: Aug 16 10:26 19101 : C: HPCHEM\1\METHODS\QU0108.M (Chemstation Integrator) Method : UAT Method (5 Points) Title Last Update : Thu Aug 16 08:57:30 2001 Response via : Initial Calibration TIC: Q0108D34.D digitalização 3400000 3200000 DOGGGGGE 2800000 2600000 2400000 (duene-dB (Sum3), S 00000 2000000 1800000 1600000 1400000 chremofluoramehiane (Sum), 5 1,2-dichlometrane-44 (Sum?), 1200000 1000000 800000 600000 400000 200000

Thu Aug 16 10:31:55 2001

00.8

QU0108.M

6.00

Q0108D34.D

10.00 12.00 14.00 16.00 16.00 20.00 22.00 24.00 26.00 28.00 30.00 32.00 34.00

Page 3

	SIS RESULT (MSD)				<u> </u>		0.4
	RPM-E-ERI-SUM			08/16/01	05.45		-4-B
METHOD NAME		ANAL. TI		08/16/01			17.8
DATA FILE:	Q0108D34_D	SAMP. VO	<u> </u>		0.12] +/-3
CAS NO.	COMPOUND NAME	MW	пl	با/وا	ppb ,	DL (ppb)	мъг (ББр)
00071-43-2	Benzene	79.11	0.47	12.39	3.88J	0.49	0.06
00108-68-3		92.13	0.30	9.20	2.44	0.49	0-06
	Ethylbenzene	106.16	0.10	3.70	0.85	0-49	0.06
	m+p-Xylene	106.16	0.24	8.56	1.97 J	0.49	0.06
00108-38-3		106.16	0.11	3.76	0.87 J	0.49	0.06
rogate F							_
AS NO.	COMPOUND NAME	MW	nl	nl(st)	ppb	rec.	MDL (ppb)
	dibromofluordmethane (Surrl)	90.00	7.25	7.QB	59,49	102.4%	0.06
	1,2-dichloroethane-d4 (Surr2)	102.99	14.55	13.19	119-45	110.3%	0.06
		100.21	13.81	13.56	113.34	101.8%	0.06
	toluene-dB (Surr3)	151.04	8.64	9.06	70.93	95.48	0.06
103855-82-1	1,4-dichlorobenzene-d4 (Surr4)	1 1 2 2 2 3 4 1				1	_

Data reviewed by Dr. Shill Liu, Laboratory Director, Analyzed by Yongzhi Wang.

J: ESTIMATED VALUE CA

Sequence Name: C:\HPCHEM\1\SEQUENCE\Q0108C.S

Comment: Operator:

Data Path: C:\HPCHEM\1\DATA\Q0108B\

Pre-Seq Cmd:
Post-Seq Cmd:

Method Sections To Run

On A Barcode Mismatch

(X) Full Method

(X) Inject Anyway

() Reprocessing Only

() Don't Inject

Line	е Туре	Vial	DataFile	Method	Sample Name
1	Sample	1	Q0108C01	R2K03	BLK 400 ML
2	Sample	1	Q0108C02	R2K03 _.	BLK 400 ML
3	Sample	3	Q0108C03	R2K03°	UAT ST 100 ML
4	Sample		Q0108C04		UAT ST 200 ML
5	Sample		Q0108C05		UAT ST 400 ML
6	Sample		Q0108C06		UAT ST 600 ML
7	Sample		Q0108C07		UAT ST 1000 ML
8	Sample		Q0108C08		NBS ST 400ML
9	Sample	5	Q0108C09	R2K03	SPL 1.5
10	Sample	6	Q0108C10	R2K03	SPL 4
11	Sample		Q0108C11		SPL 4D
12	Sample	7	Q0108C12	R2K03	RPM-E-ERI-SUM
13	Sample		Q0108C13		RPM-N-ERI-SUM
14	Sample	8	Q0108C14	R2K03,	RPM-N-ERI-SUMD
_ 15	Sample		Q0108C15		42GNC49-0150CP
16	Sample	10	Q0108C16	R2K03	42GNC49-0151CS
17	Sample	11	Q0108C17	R2K03	42BRC45-0202A
18	Sample	12	Q0108C18	R2K03,	42VTC21-0172A
19	Sample	12	Q0108C19	R2K03	42VTC21-0172AD
20	Sample		.Q0108C20		42VTC21-0173TB
21	Sample	14	Q0108C21	R2K03	071801-1S
22	Sample		Q0108C22		071901-2S
23	Sample		Q0108C23		072401-1S
24	Sample	16	Q0108C24	R2K03	072401-1SD
25	Sample	1	Q0108C25	R2K03	BLK 400ML
26	Sample		Q0108C26		PAMS 400ML
27	Sample	4	Q0108C27	R2K03	NBS ST 400ML
28	Sample	99	STBF099	STBYF	STAND BY

Data File : C:\HPCHEM\1\DATA\Q0108B\Q0108C12.D

5:04 am 8 Aug 01 Acq On

: RPM-E-ERI-SUM Sample

: 01204-01 Misc

MS Integration Params: JKUM1.E Ouant Time: Aug 9 9:57 19101 Operator: Inst : GC/MS Ins

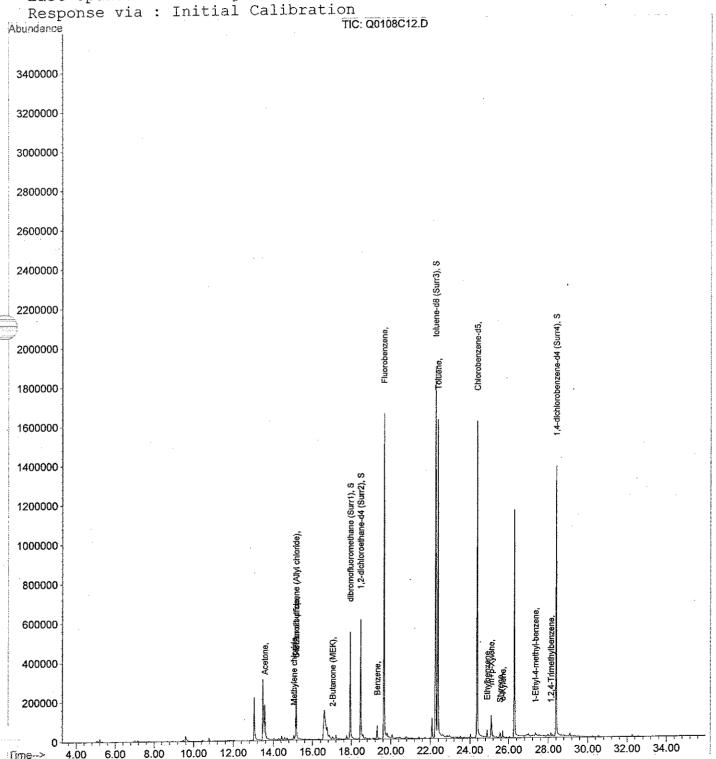
Multiplr: 1.00

Quant Results File: QU0108.RES

Vial: 7

: C:\HPCHEM\1\METHODS\QU0108.M (Chemstation Integrator) Method

: UAT Method (5 Points) Title Last Update : Thu Aug 09 09:44:44 2001



Sagmerration vebore

Data File: C:\HPCHEM\1\DATA\Q0108B\Q0108C14.D

8 Aug 01 6:44 am

: RPM-N-ERI-SUMD

Operator:

Sample

: GC/MS Ins Inst

: 01204-02D Misc

Multiplr: 1.00

Vial: 8

MS Integration Params: JKUM1.E Quant Time: Aug 9 9:57 19101

Ouant Results File: QU0108. S

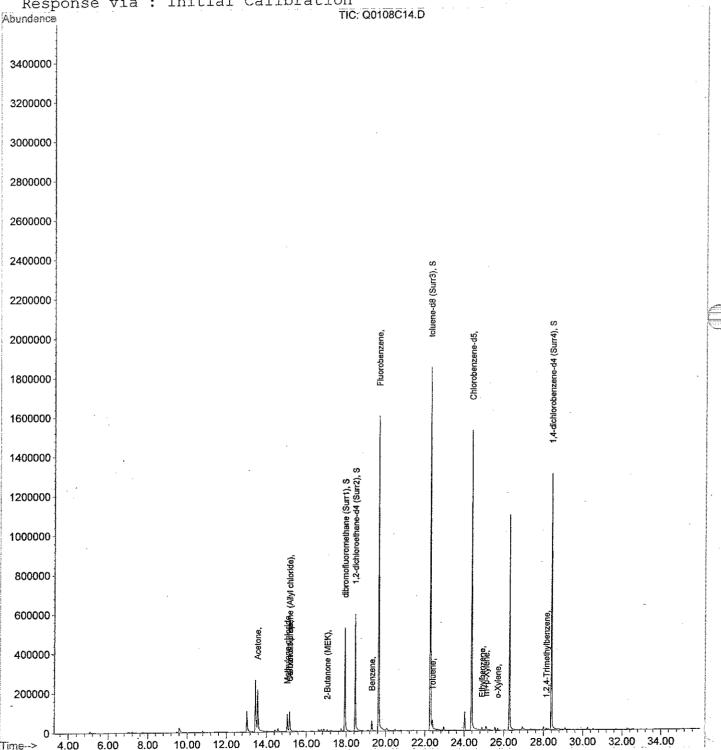
Method

Acq On

: C:\HPCHEM\1\METHODS\QU0108.M (Chemstation Integrator)

: UAT Method (5 Points) Title Last Update : Thu Aug 09 09:44:44 2001

Response via: Initial Calibration



Quantitation Report

Data File : C:\HPCHEM\1\DATA\Q0108B\Q0108C13.D

Vial: 8 Operator:

8 Aug 01 5:54 am Acq On

: GC/MS Ins Inst : RPM-N-ERI-SUM Sample

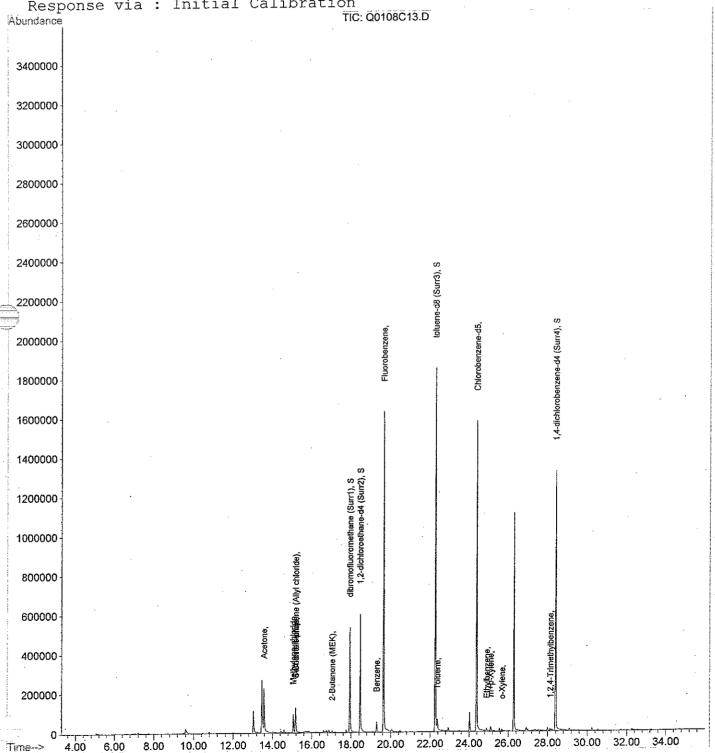
Multiplr: 1.00 : 01204-02 Misc

MS Integration Params: JKUM1.E Quant Time: Aug 9 10:34 19101 Ouant Results File: QU0108.RES

: C:\HPCHEM\1\METHODS\QU0108.M (Chemstation Integrator) Method

: UAT Method (5 Points) Title Last Update : Thu Aug 09 09:44:44 2001

Response via: Initial Calibration



UAT ANALYSIS RESULT (MSD)

FIELD ID: RPM-E-ERI-SUM

___0108-38-3 m+p-Xylene

METHOD NAMEDATA FILE:		ANAL. TI SAMP. VO	ME: L(L):	08/ 8/01	-4.8 17.8		
CAS NO.	COMPOUND NAME	MW	nl	ng/L	ppb	DL(ppb)	MDL (ppb)
00071-43-2	Benzene	78.11	0.72	18.84	5.90	0.49	0.06
00108-88-3	Toluene	92.13	13.37	413.56	109.75	0.49	0.06
00100-41-4	Ethulhenzene	106.16	0.27	9 58	2.21	0.49	0.06

106.16

106.16

151.04

37.39

9.24

9.06

1.05

0.26

9.31

8.61

2.13

76.39

0.06

0.06

0.49

0.49

102.8%

©095-47-6 o-Xylene Surrogate Recovery MDL (ppb) COMPOUND NAME MW nl nl(st) ppb rec. CAS NO. 0.06 00865-53-7 dibromofluoromethane (Surr1) 90.00 7.01 7.08 57.50 99.0% 102.99 13.19 113.61 104.9% 0.06 13.84 17060-07-0 1,2-dichloroethane-d4 (Surr2) 98.5% 0.06 13.56 109.64 100.21 13.36 02037-26-5 toluene-d8 (Surr3) 0.06

Data reviewed by Dr. Shili Liu, Laboratory Director; Analyzed by Yongzhi Wang.

03855-82-1 1,4-dichlorobenzene-d4 (Surr4)

Data File : C:\HPCHEM\1\DATA\Q0108B\Q0108C02.D

Vial: 1 Operator: 8:55 pm

7 Aug 01 : BLK 400 ML

Inst : GC/MS Ins

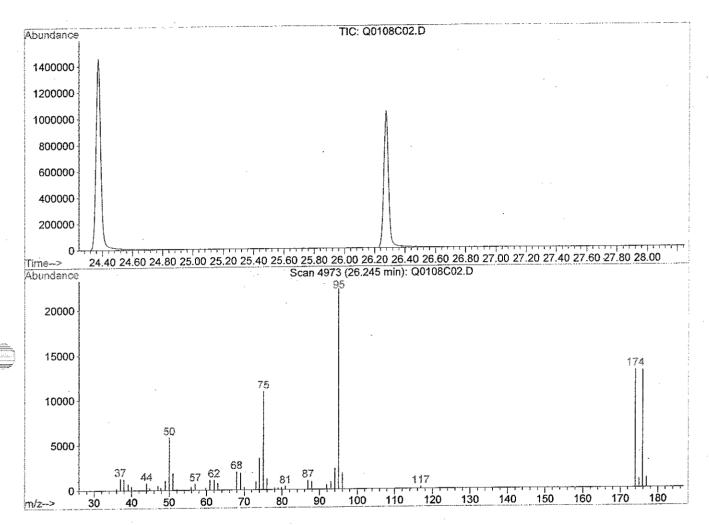
Sample

Multiplr: 1.00

Misc MS Integration Params: JKUM1.E

Method : C:\HPCHEM\1\METHODS\QU0108.M (Chemstation Integrator)

: UAT Method (5 Points)



Spectrum Information: Scan 4973

-	Target Mass		Rel. to Mass		Lower Limit%		Upper Limit%	-	Rel. Abn%		Raw Abn		Result Pass/Fail	
	50 75 95 96 173 174 175		95 95 95 95 174 95 174 174		15 30 100 5 0.00 50 5		40 60 100 9 2 100 9		26.4 49.2 100.0 8.1 0.0 59.1 7.4 99.5		5859 10924 22184 1790 0 13108 971 13046		PASS PASS PASS PASS PASS PASS PASS	
i	177	1	176	I	5	1	9		8.6	1	1127		PASS	

Response Factor Report GC/MS Ins

Method : C:\HPCHEM\1\METHODS\QU0108.M (Chemstation Integrator)

Title : UAT Method (5 Points) Last Update : Thu Aug 09 09:44:44 2001

Response via : Initial Calibration

Calibration Files

100 =Q0108C03.D 200 =Q0108C04.D 400 =Q0108C05.D 600 =Q0108C06.D 1000 =Q0108C07.D

200 400 600 1000 Avg 100 Compound

		•		•					
1)		Fluorobenzene			IS	STD			
•		Dichlorodifluorometha	Ո. 635	0.625	0.602	0.580	0.578	0.604	4.27
2)		Chloromethane	0.279	0.278	0.272	0.262	0.261	0.270	3.18
3)		1,2-Dichlorotetrafluo	0.21	0.693	0.666	0.638	0.645	0.673	5.14
4)			0.721	0.050	0.259	0.245	0.248	0.257	4.46
5)		Chloroethene	0.273	0.202	0.236	0.228	0.228	0.240	5.95
6)		Bromomethane	0.202	0.244	0.230	0.220	0.138	0.145	6.49
7)		Chloroethane					0.127		2.65
8)		Acetone Trichlorofluoromethan	0.120	0.120	0.113	0.125	0.506	0.508	3.59
9)			0.330	0.302	0.400	0.000	0.182	0.163	8.12
10)		Acrylonitrile	0.142	0.104	0.133	0.104	0.359	0.100	2.94
11)		1,1-Dichloroethene	0.303	0.373	0.374	0.330	0.311	0.370	5.07
12)		Methylene chloride	0.331	1 011	0.324	0.313	0.729	0.327	14.65
13)		Carbon disulfide	0.982	1.011	0.040	0.703	0.723	0.000	14.65
14)		3-Chloro-1-propene (A	0.854	0.079	0.730	0.003	0.054	0.733	4.64
15)		112-Trichloro-122-tri	0.504	0.480	0.403	0.433	0.405	0.338	6.38
<u>16</u>)		trans-1,2-Dichloroeht	0.364	0.358	0.317	0.327	0.323	0.330	6.04
<u> </u>		1,1-Dichloroethane	0.4/4	0.425	0.425	0.409	0.412	0.425	5.15
18)		MTBE	0.685	0.652	0.621	0.011	0.608 0.559	0.055	2.72
19)		2-Butanone (MEK)	0.555	0.501	0.331	0.374	0.009	0.330	5.79
20)		cis-1,2-Dichloroethen	0.342	0.303	0.309	0.290	0.302	0.311	6.50
21)		Chloroform		0.439	0.404	0.411	0.413	0.420	1.13
22)	S	dibromofluoromethane	0.483	0.481	0.470	0.4//	0.475	0.477	4.32
23)		tert-Butyl formate	0.201	0.184	0.180	0.100	0.195	0.150	2.47
24)	S	1,2-dichloroethane-d4	0.268	0.282	0.266	0.266	0.209	0.270	7.18
25)		1,2-Dichloroethane	0.316	0.299	0.2/5	0.269	0.271	0.200	5.83
26)		1,1,1-Trichloroethane	0.463	0.434	0.414	0.400	0.411	0.424	13.34
27)		Benzene	0.912	0.766	0.699	0.685	0.670	0.740	3.49
28)	: -	Carbon tetrachloride	0.395	0.380	0.368	0.363	0.366	0.3/3	9.06
29)		TAME	0.587	0.562	0.644	0.521	0.521	0.567	
30)		1,2-Dichloropropane	0.296	0.277	0.266	0.261	0.258	0.272	5.77
31)		Bromodichloromethane	0.482	0.460	0.442	0.430	0.432	0.450	4.87
32)		Trichloroethene	0.363	0.340	0.338	0.327	0.320	0.33/	4.88
33)		Methyl methacrylate	0.239	0.231	0.227	0.226	0.233	0.231	2.16
34)		cis-1,3-Dichloroprope	0.396	0.372	0.360	0.352	0.355	0.367	4.89
35)		MIBK	0.671	0.572	0.587	0.598	0.615	0.608	6.29
36)		trans-1,3-Dichloropro	0.290	0.269	0.270	0.269	0.271	0.274	3.37
37)		1,1,2-Trichloroethane	0.299	0.274	0.265	0.265	0.264	0.273	5.46
38)		Chlorobenzene-d5			IS	STD			

Response Factor Report GC/MS Ins

Method : C:\HPCHEM\1\METHODS\QU0108.M (Chemstation Integrator)

Title : UAT Method (5 Points)

Last Update : Thu Aug 09 09:44:44 2001

Response via: Initial Calibration

Calibration Files

100 =00108C03.D 200 =Q0108C04.D 400 =Q0108C05.D

= 20108C06.D = 20108C07.D

								-	
	Compound	100	200	400	600	1000	Avg	%RSD	_
39) S 40) 41) 42) 43) 44) 45) 46) 47) 48)	toluene-d8 (Surr3) Toluene Dibromochloromethane 1,2-Dibromoethane Tetrachloroethene Chlorobenzene Ethylbenzene m+p-Xylene Bromoform Styrene	1.119 0.550 0.520 0.484 0.802 1.318 1.046	1.042 0.522 0.478 0.461 0.762 1.229 0.979 0.423	0.520 0.469 0.447 0.731 1.197 0.963	0.973 0.510 0.469 0.440 0.738 1.186 0.958 0.439	0.974 0.524 0.471 0.447 0.736 1.206 0.961 0.456	1.020 0.525 0.482 0.456 0.754 1.227 0.982 0.435	1.15 6.11 2.82 4.49 3.81 3.93 4.33 3.78 2.94 2.72	
49) 50) 51) 52) 53) 54) 55) 56) S 57) 58) 59) 60)	o-Xylene 1,1,2,2-Tetrachloroet 1-Ethyl-4-methyl-benz 1,3,5-Trimethylbenzen 1,2,4-Trimethylbenzen chloromethylbenzene 1,3-Dichlorobenzene 1,4-dichlorobenzene 1,4-Dichlorobenzene 1,2-Dichlorobenzene 1,2,4-Trichlorobenzen Hexachloro-1,3-butadi 1,3-Butadiene	0.597 1.388 1.175 1.091 0.429 0.691 0.746 0.685 0.596	0.557 1.232 1.065 0.977 0.414 0.616 0.781 0.636 0.552 0.180 0.241	1.078 1.018 0.490 0.654 0.847 0.644 0.579 0.207	0.565 1.282 1.096 1.032 0.555 0.655 0.672 0.601 0.210 0.296	0.597 1.310 1.111 1.066 0.618 0.682 0.893 0.690	0.576 1.301 1.105 1.037 0.501 0.659 0.828 0.665	4.44 3.35 4.36 3.88 4.25 17.14 4.45 7.53 3.64 7.51 7.93 1.33	After the second

Anguitteacton vabote

Data File: C:\HPCHEM\1\DATA\Q0108B\Q0108C02.D

: 7 Aug 01 8:55 pm Acq On

: BLK 400 ML Sample

Misc

MS Integration Params: JKUM1.E

Vial: 1 Operator:

Inst : GC/MS Ins

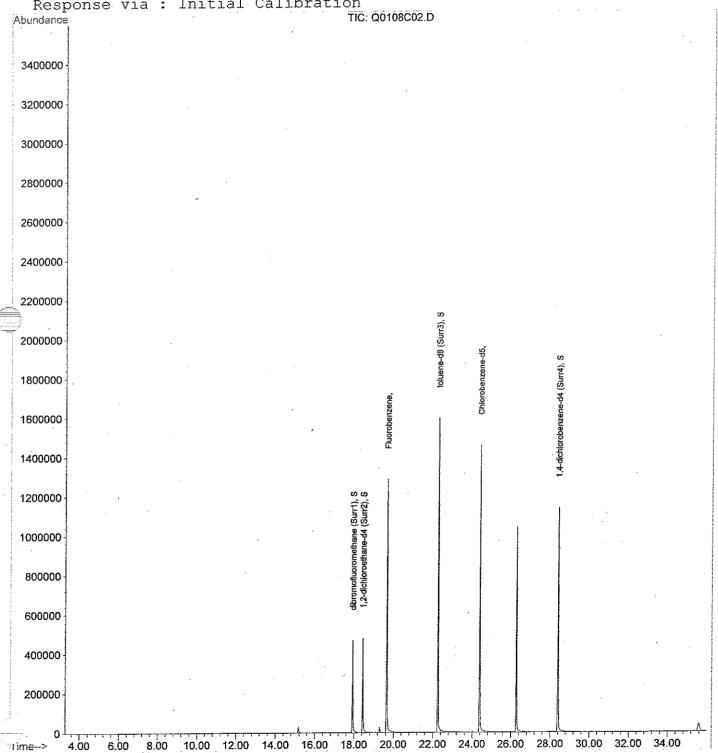
Multiplr: 1.00

Quant Results File: QU0108.RES

Ouant Time: Aug 9 10:07 19101 : C:\HPCHEM\1\METHODS\QU0108.M (Chemstation Integrator) Method

: UAT Method (5 Points) Title Last Update : Thu Aug 09 09:44:44 2001

Response via: Initial Calibration



UAT ANALY	SIS RESULT (MSD)		,				7
FIELD ID: METHOD NAME DATA FILE:		ANAL. TII SAMP. VO	08/ 7/01	<u> </u>	0.4 14.7 14.7		
CAS NO.	COMPOUND NAME	MW	nl	ng/L	ppb	DL(ppb)	MDr(bbp
00071-43-2	Benzene	78.11	0.00	ND	ND	0.15	0.06
00108-88-3		92.13	0.00	ND	ND	0.15	0.06
	Ethylbenzene	106.16	0.00	ND	ND	0.15	0.06
	m+p-Xylene	106.16	0.00	ND	ND	0.15	0.06
	o-Xylene	106.16	0.00	ND	ND	0.15	0.06
Surrogate F							,
CAS NO.	COMPOUND NAME	MW	nl	nl(st)	ppb	rec.	MDL (ppb
00865-53-7	dibromofluoromethane (Surr1)	90.00	7.51	7.08	18.78	106.1%	0.06
	1,2-dichloroethane-d4 (Surr2)	102.99	13.51	13.19	33.78	102.4%	0.06
	toluene-d8 (Surr3)	100.21	12.26	13.56	30.64	90.4%	0.06
	1,4-dichlorobenzene-d4 (Surr4)	151.04	8.50	9.06	21.26	93.9%	0.06
	Dr. Shili Liu, Laboratory Director, Analyzed by Yongzhi Wa	ing.	•				

Data File: C:\HPCHEM\1\DATA\Q0108B\Q0108C25.D

Acq On : 8 Aug 01 3:51 pm

Sample : BLK 400ML

Misc : 01101-12

Vial: 1 Operator:

Inst : GC/MS Ins

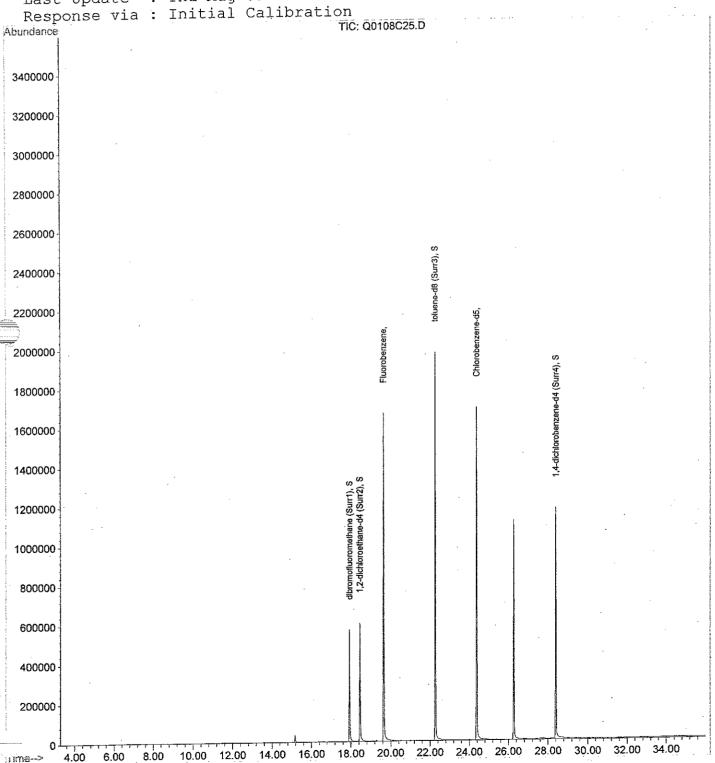
Multiplr: 1.00

MS Integration Params: JKUM1.E Quant Time: Aug 9 10:32 19101

Quant Results File: QU0108.RES

Method : C:\HPCHEM\1\METHODS\QU0108.M (Chemstation Integrator)

Title : UAT Method (5 Points)
Last Update : Thu Aug 09 09:44:44 2001



UAT	ANAL		RESULT (MSD	
		D. T. T.	4 O O MET	

0.4 FIELD ID: BLK 400ML 08/ 8/01 15:51 14.7 ANAL. TIME: METHOD NAME QU0108.M SAMP. VOL(L): 0.40 14.7 DATA FILE: q0108c25.d

CAS NO.	COMPOUND NAME	MW	nl	ng/L	ppb	DL(ppb)	MDL(bbp)
00071-43-2	Benzene	78.11	0.00	ND	ND	0.15	0.06
00108-88-3		92.13	0.00	ND	ND	0.15	0.06
00100-41-4	Ethylbenzene	106.16	0.00	ND	ND	0.15	0.06
00108-38-3	m+p-Xylene	106.16	0.00	ND	ND	0.15	0.06
095-47-6	o-Xylene	106.16	0.00	ND	ND	0.15	0.06

Surrogate F	ecovery						
CAS NO.	COMPOUND NAME	ΜW	nl	nl(st)	ppb	rec.	MDL (ppb)
00865-53-7	dibromofluoromethane (Surr1)	90.00	7.16	7.08	17.90	101.1%	0.06
17060-07-0	1,2-dichloroethane-d4 (Surr2)	102.99	13.47	13.19	33.67	102.1%	0.06
-	toluene-d8 (Surr3)	100.21	13.21	13.56	33.01	97.4%	0.06
03855-82-1	1,4-dichlorobenzene-d4 (Surr4)	151.04	7.41	9.06	18.53	81.9%	0.06

Data reviewed by Dr. Shili Liu, Laboratory Director, Analyzed by Yongzhi Wang.

Data File : C:\HPCHEM\1\DATA\Q0108B\Q0108C05.D

7 Aug 01 11:20 pm

: UAT ST 400 ML Sample

Misc

MS Integration Params: JKUM1.E

Vial: 3 Operator:

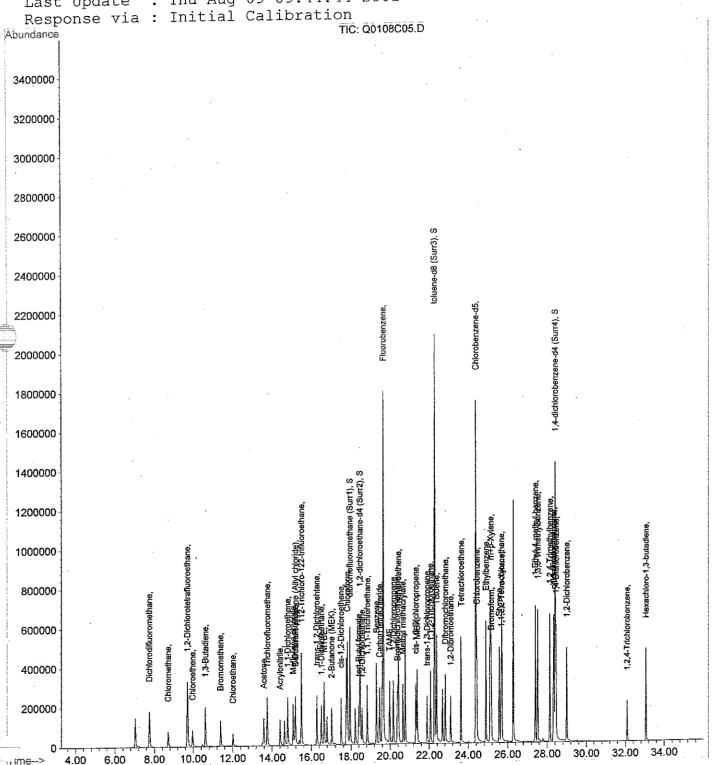
: GC/MS Ins Inst

Multiplr: 1.00

Ouant Results File: QU0108.RES

Quant Time: Aug 9 10:28 19101 : C:\HPCHEM\1\METHODS\QU0108.M (Chemstation Integrator)

Method : UAT Method (5 Points) Title : Thu Aug 09 09:44:44 2001 Last Update



HAT ANALY	SIS RESULT(MSD)						3
FIELD ID: METHOD NAME DATA FILE:	ANAL. TII	ME: L(L):	08/ 8/01	0.4 -4 15.2			
CAS NO.	COMPOUND NAME	MW	nl	ng/L	ppb	DL (ppb)	MDL(ppb)
00071-43-2		78.11	0.55	12.19	3.82	0.42	0.06
00071-43-2		92.13	0.31	8.08	2.14	0.42	0.06
		106.16	0.10	3.12	0.72	0.42	0.06
	Ethylbenzene	106.16	0.20	6.09	1.40	0.42	0.06
<u>La0108-38-3</u>		106.16	0.08	2.54	0.58	0.42	0.06
Surrogate F							3 (3.)
CAS NO.	COMPOUND NAME	MW	nl	nl(st)	ppb	rec.	MDL (ppb)
	dibromofluoromethane (Surr1)	90.00	6.97	7.08	48.69	98.4%	0.06
	1,2-dichloroethane-d4 (Surr2)	102.99	14.36	13.19	100.32	108.9%	0.06
	toluene-d8 (Surr3)	100.21	13.70	13.56	95.73	101.1%	0.06
03855-82-1	1,4-dichlorobenzene-d4 (Surr4)	151.04	9.18	9.06	64.10	101.3%	0.06

Data reviewed by Dr. Shill Liu, Laboratory Director, Analyzed by Yongzhi Wang.

UAT ANALY	SIS RESULT (MSD)						7
FIELD ID: METHOD NAME DATA FILE:	-	ANAL. TI SAMP. VO		08/ 8/01	1	0.4 -4 15.2	
CAS NO.	COMPOUND NAME	MW	nl	ng/L	ppb	DL(ppb)	MDL(ppb)
00071-43-2	Benzene	78.11	0.56	12.56	3.93	0.42	0.06
00108-88-3	Toluene	92.13	0.37	9.65	2.56	0.42	0.06
	Ethylbenzene	106.16	0.10	3.18	0.73	0.42	0.06
00108-38-3	m+p-Xylene	106.16	0.21	6.49	1.49	0.42	سم 0.06
00095-47-6		106.16	0.09	2.64	0.61	0.42	0.06
Surrogate R	ecovery						
CAS NO.	COMPOUND NAME	WM	nl	nl(st)	ppb	rec.	MDL (ppb)
00865-53-7	dibromofluoromethane (Surr1)	90.00	7.09	7.08	49.54	100.1%	0.06
	1,2-dichloroethane-d4 (Surr2)	102.99	13.99	13.19	97.74	106.1%	0.06
	toluene-d8 (Surr3)	100.21	13.49	13.56	94.23	99.5%	0.06
	1,4-dichlorobenzene-d4 (Surr4)	151.04	9.09	9.06	63.49	100.3%	0.06

Data reviewed by Dr. Shili Liu, Laboratory Director, Analyzed by Yongzhi Wang.

UAT STANDARD RECOVERY (MSD)

FIELD ID: DAT ST 400 ML ANAL. TIME: 08/ 7/01 23:20 14.7 METHOD NAME:QU0108.M 14.7 0.40 DATA FILE: Q0108C05.D SAMP. VOL(L): COMPOUND NAME ΜW nl nl(st) dqq rec. MDL (ppb) CAS NO. 00075-71-8 Dichlorodifluoromethane 119.93 4.03 4.08 10.08 98.8% 0.06 49.99 4.08 4.08 10.19 99.9% 0.0610074-87-3 Chloromethane 10.03 98.3% 0.06 00076-14-2 1,2-Dichlorotetrafluoroethane 169.93 4.01 4.08 0.06 00075-01-4 Chloroethene 61,99 4.02 4.08 10.06 98.6% 0.06 93.94 4.02 4.08 10.05 98.6% 00074-83-9 Bromomethane 4.08 10.02 98.3% 0.06 64.01 4.01 00075-00-3 Chloroethane 4.17102.3% 10.44 0.06 00067-64-1 Acetone 58.08 4.08 96.0% 00075-69-4 Trichlorofluoromethane 135.90 3.92 4.08 9.79 0.06 15.57 0.06 53.03 6.23 6.19 100.6% 00107-13-1 Acrylonitrile 100.0% 0.06 95.95 4.16 4.16 10.40 00075-35-4 1,1-Dichloroethene 0.06 84.93 4.01 4.16 10.03 96.5% 00075-09-2 Methylene chloride 76.10 3.85 4.00 9.62 96.2% 0.06 00075-15-0 Carbon disulfide 0.06 00107-05-1 3-Chloro-1-propene (Allyl chloride) 76.01 4.43 4.60 11.07 96.2% 98.5% 0.06 00076-13-1 112-Trichloro-122-trifluoroethane 185.90 4.10 4.16 10.24 4.08 00156-60-5 trans-1,2-Dichloroehtene 95.95 3.83 9.57 93.9% 0.06 4.16 10.15 97.6% 0.06 00075-34-3 1,1-Dichloroethane 98.96 4.06 4.13 4.12 10.33 100.2% 0.06 88.15 01634-04-4 MTBE 4.02 98.6% 0.06 4.08 10.06 72.14 00078-93-3 2-Butanone (MEK) 0.06 99.3% 00156-59-2 cis-1,2-Dichloroethene 95.95 4.13 4.16 10.32 4.16 94.3% 0.06 00067-66-3 Chloroform 119.39 3.92 9.81 0.06 102.13 3.58 3.76 8.94 95.0% 00762-75-4 |tert-Butyl formate 96.8% 0.06 4.03 4.16 10.07 00107-06-2 1,2-Dichloroethane 98.96 97.7% 0.06 4.07 4.16 10.16 00071-55-6 1,1,1-Trichloroethane 133.42 3.93 4.20 9.83 93.6% 0.06 78.11 00071-43-2 Benzene 0.06 4.12 4.20 10.30 98.1% 00056-23-5 Carbon tetrachloride 153.83 0.06 113.5% 00994-05-8 TAME 102.18 3.49 3.07 8.71 0.06 00078-87-5 1,2-Dichloropropane 113.00 4.11 4.16 10.27 98.78 98.4% 0.06 00075-27-4 Bromodichloromethane 163.83 4.02 4.08 10.04 131.40 4.12 4.12 10.31 100.1% 0.06 Trichloroethene 00079-01-6 3.81 3.75 9.37 98.3% 0.06 ປິ0080-62-6 Methyl methacrylate 100.05 4.20 10.39 98.9% 0.06 109.97 4.15 10061-01-5 cis-1,3-Dichloropropene 100.2% 0.06 100.16 4.09 4.08 10.22 00108-10-1 MIBK 4.18 4.20 10.44 99.5% 0.06 109.97 10061-02-6 trans-1,3-Dichloropropene 0.06 4.16 10.41 4.20 99.1% 00079-00-5 1,1,2-Trichloroethane 131.93 0.06 00108-88-3 Toluene 3.98 4.16 9.94 95.6% 92.13 3.89 4.08 9.73 95.4% 0.06 208.29 Dibromochloromethane 00124-48-1 185.87 3.96 4.16 9.91 95.3% 0.06 00106-93-4 1,2-Dibromoethane 10.01 96.3% 0.06 4.01 4.16 165.85 00127-18-4 Tetrachloroethene 9.90 95.2% 0.06 3.96 4.16 112.60 00108-90-7 Chlorobenzene 4.01 4.16 10.02 96.3% 0.06 106.16 00100-41-4 Ethylbenzene 0.06 8.01 8.32 20.03 96.3% 106.16 00108-38-3 m+p-Xylene 98.8% 0.06 4.16 10.28 252.75 4.11 00075-25-2 Bromoform 0.06 00100-42-5 Styrene 4.04 4.16 10.10 97.2% 104.10 106.16 3.99 4.16 9.97 95.9% 0.06 00095-47-6 o-Xylene 3.99 4.16 9.98 95.9% 0.06 165.89 00079-34-5 1,1,2,2-Tetrachloroethane 3.93 9.83 96.3% 0.06 4.08 120.09 00622-96-8 1-Ethyl-4-methyl-benzene 4.00 4.16 10.01 96.2% 0.06 00108-67-8 1,3,5-Trimethylbenzene 120.09 0.06 120.09 4.01 4.16 10.02 96.3% 00095-63-6 1,2,4-Trimethylbenzene 4.03 4.00 10.08 100.8% 0.06 126.02 00100-44-7 |chloromethylbenzene 10.06 96.7% 0.06 4.02 4.16 145.97 00541-73-1 1,3-Dichlorobenzene 4.07 10.17 97.8% 0.06 00106-46-7 1,4-Dichlorobenzene 145.97 4.16 145.97 4.07 4.16 10.17 97.8% 0.06 00095-50-1 1,2-Dichlorobenzene 104.9% 4.36 10.91 0.06 4.16 00120-82-1 1,2,4-Trichlorobenzene 179.93 10.77 0.06 00087-68-3 Hexachloro-1,3-butadiene 257.81 4.31 4.16 103.6% 0.06 54.09 4.06 4.16 10.16 97.78 00106-99-0 1,3-Butadiene Surrogate Recovery MW nl nl(st) ppb rec. MDL (ppb) COMPOUND NAME CAS NO. 98.4% 0.06 90.00 6.97 7.08 17.42 dibromofluoromethane (Surrl) J0865-53-7 0.06 102.99 13.02 13.19 32.54 98.7% 17060-07-0 [1,2-dichloroethane-d4 (Surr2) 0.06 100.21 13.03 13.56 32.57 96.1% 02037-26-5 toluene-d8 (Surr3) 151.04 9.13 9.06 22.82 100.8% 0.06 03855-82-1 1,4-dichlorobenzene-d4 (Surr4)

0.4

Data reviewed by Dr. Shili Liu, Laboratory Director; Analyzed by Jiangshi Kang

Quantitation keport

Data File: C:\HPCHEM\1\DATA\Q0108B\Q0108C08.D

8 Aug 01 1:53 am

Operator: Acq On

: GC/MS Ins : NBS ST 400ML Inst Sample Multiplr: 1.00

Misc

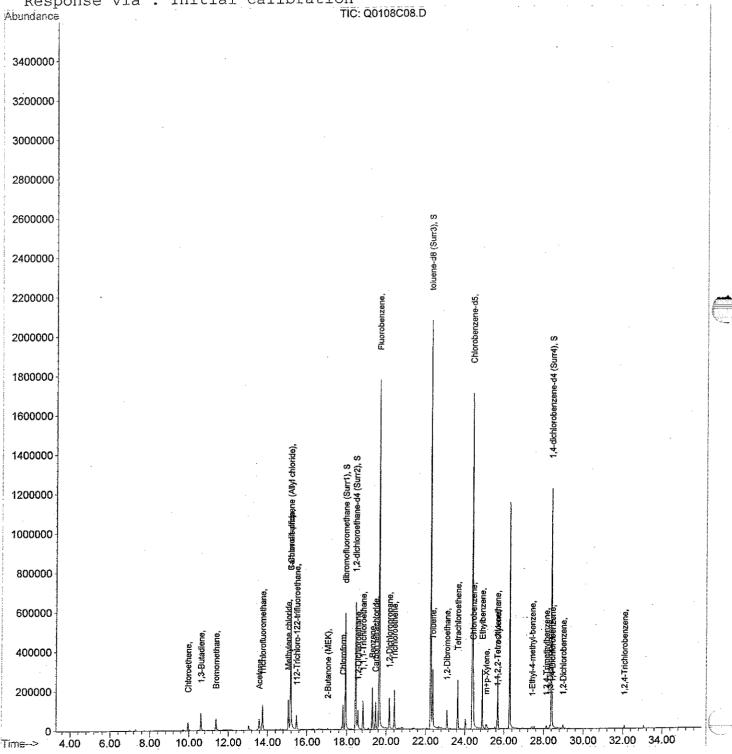
MS Integration Params: JKUM1.E Quant Results File: QU0108. Quant Time: Aug 9 9:56 19101

Vial: 4

: C:\HPCHEM\1\METHODS\QU0108.M (Chemstation Integrator) Method

: UAT Method (5 Points) Title Last Update : Thu Aug 09 09:44:44 2001

Response via: Initial Calibration



UAT SECOND SOURCE STANDARD RECOVERY (MSD)

FIELD ID: NBS ST 400ML
METHOD NAME QU0108.M ANAL. TIME: 08/ 8/01 01:53
DATA FILE: q0108c08.d SAMP. VOL(L): 0.40

0.4 14.7 14.7

DATE 1105. QVIOGGOTA		7 -	1 3 / 1 \		T
CAS NO. COMPOUND NAME	MW	l nl	ppb(st)	ppb	rec.
00075-71-8 Dichlorodifluoromethane	1				1
70074-87-3 Chloromethane		-	<u> </u>		
00076-14-2 1,2-Dichlorotetrafluoroethane					
00075-01-4 Chloroethene	61.99	2.02	5.03	5.05	100.4%
00074-83-9 Bromomethane	93.94	1.81	5.05	4.53	89.7%
00075-00-3 Chloroethane		ļ			
00067-64-1 Acetone					
00075-69-4 Trichlorofluoromethane	135.90	2.15	5.06	5.37	106.1%
00107-13-1 Acrylonitrile					
00075-35-4 1,1-Dichloroethene		<u> </u>			
00075-09-2 Methylene chloride	84.93	2.20	5.09	5.50	108.1%
00075-15-0 Carbon disulfide					
00107-05-1 3-Chloro-1-propene (Allyl chloride)	İ				
00076-13-1 112-Trichloro-122-trifluoroethane					
00156-60-5 trans-1,2-Dichloroehtene					Ì
00075-34-3 1,1-Dichloroethane					"
01634-04-4 MTBE			1		
00078-93-3 2-Butanone (MEK)	1.	 			
00156-59-2 cis-1,2-Dichloroethene	·	 	 		
00067-66-3 Chloroform	119.39	1.96	5.09	4.90	96.2%
00762-75-4 tert-Butyl formate	+ + + + + + + + + + + + + + + + + + + +	1	3.05	1.00	
00107-06-2 1,2-Dichloroethane	98.96	2.01	5.09	5.02	98.7%
00071-55-6 1,1,1-Trichloroethane	133.42	1.93	5.08	4.83	95.1%
	78.11	2.03	5.08	5.06	99.7%
00071-43-2 Benzene	153.83	2.50	5.24	6.25	119.3%
00056-23-5 Carbon tetrachloride	102.18	2.30	3.27	0.23	110.00
00994-05-8 TAME	113.00	1.98	5.09	4.96	97.4%
00078-87-5 1,2-Dichloropropane	163.83	130	3.09	4.30	37.48
00075-27-4 Bromodichloromethane		7 04	= 00	4 60	90.48
00079-01-6 Trichloroethene	131.40	1.84	5.09	4.60	90.4%
00080-62-6 Methyl methacrylate	100.05		ļ		<u> </u>
10061-01-5 cis-1,3-Dichloropropene	109.97		<u> </u>		
00108-10-1 MIBK	100.16				
10061-02-6 trans-1,3-Dichloropropene	109.97				
00079-00-5 1,1,2-Trichloroethane	131.93		ļ		
00108-88-3 Toluene	92.13	2.23	5.10	5.58	109.5%
00124-48-1 Dibromochloromethane	208.29				ļ
00106-93-4 1,2-Dibromoethane	185.87	1.69	5.10	4.22	82.8%
00127-18-4 Tetrachloroethene	165.85	1.91	5.10	4.76	93.4%
00108-90-7 Chlorobenzene	112.60		5.10	5.06	99.1%
00100-41-4 Ethylbenzene	106.16	2.00	5.10	5.00	98.1%
00108-38-3 m+p-Xylene	106.16.				<u> </u>
00075-25-2 Bromoform	252.75				
00100-42-5 Styrene	104.10				
00095-47-6 o-Xylene	106.16	1.95	5.10	4.88	95.8%
00079-34-5 1,1,2,2-Tetrachloroethane	165.89				
00622-96-8 1-Ethyl-4-methyl-benzene	120.09				
00108-67-8 1,3,5-Trimethylbenzene	120.09		į į		
00095-63-6 1,2,4-Trimethylbenzene	120.09				
00100-44-7 chloromethylbenzene	126.02				
00541-73-1 1,3-Dichlorobenzene	145.97		·	,	
00106-46-7 1,4-Dichlorobenzene	145.97				· · · · · · · · · · · · · · · · · · ·
00106-46-7 1,4-Dichlorobenzene	145.97				
			-		
00120-82-1 1,2,4-Trichlorobenzene	179.93				
00087-68-3 Hexachloro-1,3-butadiene	257.81				
00106-99-0 1,3-Butadiene	54.09	•	<u>. </u>		
CAR NO COMPOUND NAME	MTAT	nl	nl/e+\ l	nnh	rec.
CAS NO. COMPOUND NAME	WM	117	nl(st)	ppb	TEC.

6.98

13.78

90.00

102.99

7.08

13.19

17.45

34.44

34.17

19.38

0.06

98.6%

104.4%

100.8%

85.6%

.0865-53-7 dibromofluoromethane (Surr1)

17060-07-0 1,2-dichloroethane-d4 (Surr2)

quantitation keport

Data File : C:\HPCHEM\1\DATA\Q0108B\Q0108C27.D

Vial: 4

8 Aug 01 5:29 pm Acq On

Operator:

: NBS ST 400ML Sample

: GC/MS Ins Inst

Misc : 01101-12

Multiplr: 1.00

MS Integration Params: JKUM1.E 9 9:59 19101 Quant Time: Aug

Quant Results File: QU0108. k-3

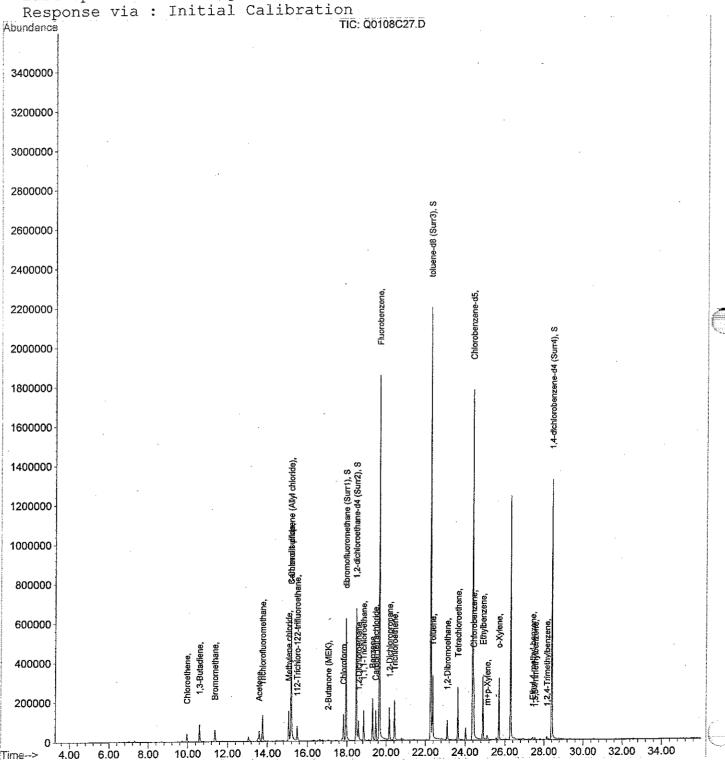
Method

: C:\HPCHEM\1\METHODS\QU0108.M (Chemstation Integrator)

Title

UAT Method (5 Points)

Last Update : Thu Aug 09 09:44:44 2001



UAT SECOND SOURCE STANDARD RECOVERY (MSD)

NBS ST 400ML

FIELD ID:

ANAL. TIME: 08/ 8/01 17:29 14.7 METHOD NAME:OU0108.M 0.40 14.7 DATA FILE: q0108c27.d SAMP. VOL(L): COMPOUND NAME MW nl ppb(st) ppb rec. MDL (ppb) CAS NO. 00075-71-8 Dichlorodifluoromethane 0.06 10074-87-3 Chloromethane 0.06 00076-14-2 1,2-Dichlorotetrafluoroethane 0.06 00075-01-4 Chloroethene 61.99 1.98 5.03 4.96 98.6% 0.06 93.94 1.76 5.05 4.41 87.3% 0.06 00074-83-9 Bromomethane 0.06 00075-00-3 Chloroethane 0.06 00067-64-1 Acetone 00075-69-4 Trichlorofluoromethane 135.90 2.13 5.06 5.33 105.3% 0.06 0.06 00107-13-1 Acrylonitrile 0.06 00075-35-4 1,1-Dichloroethene 84.93 2.20 5.09 5.50 108.1% 0.06 00075-09-2 Methylene chloride 00075-15-0 Carbon disulfide 0.06 3-Chloro-1-propene (Allyl chloride) 0.06 00076-13-1 112-Trichloro-122-trifluoroethane 0.06 00156-60-5 trans-1,2-Dichloroehtene 0.06 00075-34-3 1,1-Dichloroethane 0.06 0.06 01634-04-4 MTBE 0.06 00078-93-3 2-Butanone (MEK) 00156-59-2 cis-1,2-Dichloroethene 0.06 5.06 0.06 00067-66-3 Chloroform 119.39 2.02 5.09 99.48 0.06 00762-75-4 tert-Butyl formate 2.03 5.09 5.08 99.8% 0.06 00107-06-2 1,2-Dichloroethane 98.96 1.96 5.08 4.90 96.5% 0.06 00071-55-6 1,1,1-Trichloroethane 133.42 5.08 5.06 99.7% 0.06 00071-43-2 Benzene 78.11 2.03 2.50 5.24 6.25 119.3% 0.06 00056-23-5 Carbon tetrachloride 153.83 0.06 00994-05-8 TAME 102.18 00078-87-5 1,2-Dichloropropane 113.00 1.95 5.09 4.88 95.8% 0.06 00075-27-4 Bromodichloromethane 163.83 131.40 1.84 5.09 4.60 90.4% 0.06 00079-01-6 Trichloroethene 0.06 00080-62-6 Methyl methacrylate 100.05 0.06 10061-01-5 cis-1,3-Dichloropropene 109.97 100.16 0.06 00108-10-1 MIBK 0.06 109.97 10061-02-6 trans-1,3-Dichloropropene 0.06 00079-00-5 1,1,2-Trichloroethane 131.93 2.24 5.10 5.59 109.7% 0.06 00108-88-3 Toluene 92.13 00124-48-1 Dibromochloromethane 208.29 0.06 1.60 5.10 3.99 78.3% 0.06 185.87 00106-93-4 1,2-Dibromoethane 4.78 93.8% 0.06 1.91 5.10 00127-18-4 Tetrachloroethene 165.85 5.00 98.1% 2.00 5.10 0.06 00108-90-7 Chlorobenzene 112.60 5.01 98.3% 0.06 106.16 2.01 5.10 00100-41-4 Ethylbenzene 106.16 0.06 00108-38-3 m+p-Xylene 0.06 00075-25-2 Bromoform 252.75 104.10 0.06 00100-42-5 Styrene 106.16 2.02 5.10 5.05 99.1% 0.06 00095-47-6 o-Xylene 0.06 165.89 00079-34-5 1,1,2,2-Tetrachloroethane 120.09 0.06 00622-96-8 | 1-Ethyl-4-methyl-benzene 00108-67-8 1,3,5-Trimethylbenzene 0.06 120.09 120.09 0.06 00095-63-6 1,2,4-Trimethylbenzene 0.06 126.02 00100-44-7 chloromethylbenzene 0.06 145.97 00541-73-1 1,3-Dichlorobenzene 0.06 00106-46-7 1,4-Dichlorobenzene 145.97 145.97 0.06 00095-50-1 1,2-Dichlorobenzene 0.06 179.93 00120-82-1 1,2,4-Trichlorobenzene 257.81 00087-68-3 Hexachloro-1,3-butadiene 0.06 54.09 0.06 00106-99-0 1,3-Butadiene Surrogate Recovery nl(st) ppb (dqq) JQM COMPOUND NAME MM nΪ rec. CAS NO. 0.06 J0865-53-7 dibromofluoromethane (Surrl) 90.00 7.09 7.08 17.73 100.2% 102.99 13.53 13.19 33.83 102.6% 0.06 17060-07-0 1,2-dichloroethane-d4 (Surr2) 02037-26-5 |toluene-d8 (Surr3) 0.06 100.21 13.55 13.56 33.88 99.9% 7.84 9.06 19.61 0.06 151.04 86.6% 03855-82-1 1,4-dichlorobenzene-d4 (Surr4)

0.4

Data reviewed by Dr. Shili Liu, Laboratory Director, Analyzed by Jiangshi Kang

413.56×60 -126 413.56×10 mg

UAT ANALYSIS RESULT (MSD)

FIELD ID: RPM-E-ERI-SUM - Z/ METHOD NAME QU0108.M

DATA FILE: q0108c12.d

ANAL. TIME: SAMP. VOL(L):

MW

08/ 8/01 05:04 0.12

17.8

0.4

-4.8

0.06 >

0.06

0.06

0.06

ppb DL(ppb) MDL (ppb) 0.06

COMPOUND NAME nl ng/L 00071-43-2 Benzene 78.11 0.72 18.84 5.90 0.49 00108-88-3 Toluene 13.37 92.13 413.56 109.75 0.49 00100-41-4 Ethylbenzene 106.16 0.27 9.58 2.21 0.49)108-38-3 m+p-Xylene 106.16 1.05 37.39 8.61 0.49 700095-47-6 o-Xylene 106.16 0.26 9.24 2.13 0.49 Surrogate Recovery

CAS NO.

CAS NO. COMPOUND NAME						
COM COND NAME	MW	nl	nl(st)	daa	rec.	MDL (ppb)
00865-53-7 dibromofluoromethane (Surr1)	90.00	7.01	7.08	57.50	99.0%	0.06
17060-07-0 1,2-dichloroethane-d4 (Surr2)	102.99	13.84	13.19	113.61	104.9%	0.06
02037-26-5 toluene-d8 (Surr3)	100.21	13.36	13.56	109.64	98.5%	-{
03855-82-1 1,4-dichlorobenzene-d4 (Surr4)	151.04	9.31	9.06	76.39		0.06
Data maintained by D. D. Water			3.00	70.35	102.8%	0.06

Data reviewed by Dr. Shili Liu, Laboratory Director, Analyzed by Yongzhi Wang.

ERI Chain of Custody

Environmental Research Institute 270 Middle Tumpike U-5210 Storrs, Ct 06269-5210 Customersupport@eri,ucom.cdu

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Billing MARREMET KEUCH	Prione 635-940-0300) or	-11611-			My TIME	-		1 1								-
i. Ahaal Trahioits	66	Mirahiotis @ eri. uconn. edu		Laboratory Sign off (signature, print name, date)		12-4 Gate of Analysis and report generation are provided in the electronic data report		Lab	PAH PAHMotals								
	phone 486-2299		Reporting Request	Extraction Date		ate of Analysis and report ge		L- Organics Lab P- Nutrients Prep Lab	E CYPTO D CONTRACT OF THE CONT	131-01 01204-02 8-1-01 01204-02							P. P. Company of the
		Date, Time (?) [C.] Date, Time	Tr Date, Time Billy	Date, Time 5.01	Date, Time 8:32 01	Date,Time 2-5-6	Date, I'me	P- Hallway Fridge L- Org	Star	7010 7-31-01							
	Sample Transfer (Signature and Edition	Relinguished By: / Mark - / Mark	Relinquished By: Continuey MACHBERET	Received By:	Relinquished By: Dl TH	Received By: Y Wally	Helinquished By:	Received By: Sample Storage Location:	Field Number	, Rem-E-ERI-SUM	0 4	12 9	6	11	71	14	

2401 W. 22.20ST. Oper Brown, I'r 166523 Kin berly Nicholas Ernans & McOnvier

VOC FIELD SHEET AND CHAIN OF CUSTODY SECTION ONE To be completed by analytical Lab before shipping to field Can ID#: 10[0 Can Make: BRC Anderson SIS Canister Cleaned: Date: 7/10/0] Signature Y. Wang Canister Vacuum (after eleming): -29 "Hg If used as Batch Blank (circle one) (CCEPTABL) VOID Comisier released to Sumation Tradicity lamsier drop off at West-of Segunture; SECTION TWO To be completed by Field Sampler Print sucrey Whetherer Date: 7-31-01 CIBRC45 MRC46 WDC47 VTC21 GNC49 HFC48 WYCS1 EHC1 HNC25 WFC3 N1C2 Sample #: FPN-E-EPU-SUM Sample Code: A CP CS FB TB CERT Other Town/Code: ampler ID#; Collocated Partner: Other Sample Code: tart Date: 7-31-01 Start Time; 6:40am (EST. LOCAL) nd Date: 7-31-01 End Time: 3:40pm (EST COCAD) tarting Vacuum(in.Hg) 29 Final Can Pressure (psig) tart Target Flow Rate (cc/min): Sct Up Date: mher Start: hrs Timer End; hrs Pick-Up Date: art Flow Meter: DryCal Sierra. S/N:_____ End Flow Meter: DryCal Sierra S/N:____ Circle One: ACCEPTABLE anister delivered to courier: Date: _____ Signature: _____ mister picked up by courier: Date: ______Signature:_____ OTES: CEPTANCE CRITERIA: SET START TARGET FLOW RATE TO 12.50 CC/MIN. +/- 10% (11.30-13.80 CC/MIN.) AND RECORD TO 10 (2) DECIMAL PLACES, TOTAL ELAPSED TIME 1440 MIN +/-144 (1296-1584), START VACUUM -29 TO -27 INCHES OF ING, ID PRESSURE 10 -30 PSIG (IN FIELD CONDITIONS) ECTION THREE To be completed by Analytical Lab nister received: Signature: 1/4 LA

rised: 04/05/01 1:03 PM

mple ID#: LPM-EFRI-SUM Lab ID#: 0/204-01 Pressure: 9 in 15 psig

(circle one) Acceptable Void

Toxics\Forms\form5_doc

Print: Debra Lent Date: \$3/01

VOC FIELD SHEET AND CHAIN OF CUSTODY

SECTION ONE	A O C TIPEDO		ND CHAIN OF Capleted by analytical I		ning to first i
can 10#: 205	Can Make: BRC And	erson SIS	Canister Cleaned	Dute 7/1	7/0/
Signature Y. Wang Canister Vacuum (affer	Print: 7 (deaning): 129	. Wang	s Dissel - Refer to a local co		
Comster released to St	quature.	Print	Michael Trabate	1.	D/276
Camster drop off in Wi	•		Pran -);
SECTION TWO			labe con	pleted by Field	
Canister received: Sign.	more Esting Ille	Print	MA	a Horson	B 1
Project #: 27194 Tow	n ⁴ Code:BRC45_MRC46	WDC47 VTC21	GNC4a HLC42 WAC	51 EHCL HN	C25 W4C3 - 81C2
Sample #: RPM-N-B	ri-Sur Sample Code	E A CP CS	FB TB CERT (Other Town/Co	*
Sampler ID#:		•		Other Sample Co	nde
Start Date: <u>8-1-01</u>	Start Time: 6:35am	Y EST LO	CAD)		
Date: <u>\$-</u> -0					
Starting Vacuum(in.Hg)_	30 Final Can	Pressure (psig)	8.5		
Start Target Flow Rate (·	Set Un Date	·-
Гimer Start:hı	-	¥		Set Up Date	
Start Flow Meter: DryC:	al Sierra S/N:	End F	low Mother Desical	Pick-Up Date	X
Canister delivered to com	general (1881 e.g.)	_ Signature:	Circle One: ACC	EPTABLE	VOID
Canister picked up hy co	urier: Date:	Signature:		Print:	
Notes:				Print:	
ACCEPTANCE CRITERIA: SI FWO (2) DECIMAL PLACES, END PRESSURE 10 –30 PSIC	ET START TARGET FLOW I TOTAL ELAPSED TIME 144 G (IN FIELD CONDITIONS)	CATE TO 12.50 CO 0 MIN +/-144 (12	DMIN. +/- 10% (11.30-1 96-1584), START VACU	3.80 CC/MIN.) AN UM –29 TO -27 IN	VD RECORD TO
SECTION THREE			Tobaccaldalla	. 4 1	2000
Parister received: Signat	ure: Di	4	To be completed by		A SOUND STATE OF THE PARTY OF T
Sample ID#RPM-N-EA	215UM Lability (1)	11 11 877	int: Deb-al	Date:	<i>\$1310</i> 1
04/05/01 I:03 PM		- 2 6(3		e One) : Accepte	ino wa
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